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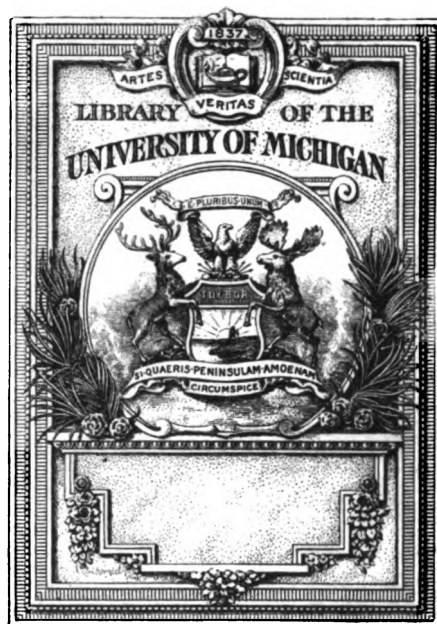
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U. S. DEPARTMENT OF AGRICULTURE,
U. S. WEATHER BUREAU.

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE

PRINCIPAL RIVERS OF THE UNITED STATES.

PART VI.

FOR THE YEARS 1896, 1897, 1898, AND 1899.

PREPARED UNDER DIRECTION OF
WILLIS L. MOORE,
CHIEF OF BUREAU,

BY

H. C. FRANKENFIELD,
FORECAST OFFICIAL.



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INTRODUCTION.

This volume constitutes the sixth part of the series of river gage readings, the publication of which was begun by the Signal Service and has been continued by the Weather Bureau. The previous volumes are as follows:

- Part I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- Part II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- Part III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.
- Part IV. Daily River Stages at River Gage Stations on the Principal Rivers of the United States for the Years 1890, 1891, and 1892.
- Part V. Daily River Stages at River Gage Stations on the Principal Rivers of the United States for the Years 1893, 1894, and 1895.

The river stages given are vertical heights in feet and tenths of a foot of the river surface above or below an arbitrarily assumed plane, which is approximately that of lowest water occurring at the place with a natural free flow of water. Abnormally low water due to an ice gorge above a station is not considered in establishing low water.

Observations of river stages are made as near 8 a. m., seventy-fifth meridian time, as the exigencies of the service will permit.

The tabulated gage readings are preceded by a statement which includes the locations of stations, descriptions of gages and bench marks, heights of danger lines, low-water and flood marks, and other data, for the various river stations whose gage readings are included in the tables. The gage readings are arranged by river systems, and are preceded by two indexes—one alphabetical, with respect to the stations, and the second following the arrangement of the text. The former enables ready reference to be made to any desired station; the latter is useful in studying the regimen of any given river.

River stations are maintained by the Weather Bureau for the purpose of making forecasts of river stages in the interest of navigation, and of issuing flood warnings in cases of dangerous rises. Daily gage readings are made at stations located on the various watersheds, and are collected by telegraph at 32 centers. The preparation of river forecasts and warnings is in most cases intrusted to the officials of the Weather Bureau at those centers, under the supervision of the forecast official at Washington.

The forecasting centers, and the territory covered by each, are given in the following table:

FORECASTING CENTERS AND TERRITORIES.

Albany, N. Y	Hudson River at Albany and vicinity; Mohawk River from Crescent, N. Y., to mouth.
Atlanta, Ga	Chattahoochee, Flint, Oconee, Ocmulgee, and rivers of northwest Georgia.
Augusta, Ga	Savannah River.
Cairo, Ill. ¹	Ohio River from below Louisville to mouth; Mississippi River from below St. Louis to Cairo; Tennessee River from Florence, Ala., to mouth.
Charleston, S. C	Rivers of South Carolina.
Chattanooga, Tenn. ¹	Tennessee River and larger tributaries from head waters to Bridgeport, Ala.

¹ Forecasts made daily throughout the year.

Cincinnati, Ohio ¹	Ohio River and tributaries from below Parkersburg to the mouth of the Kentucky River.
Davenport, Iowa ²	Mississippi River from below Prairie du Chien, Wis., to Davenport.
Fort Smith, Ark	Arkansas River at Fort Smith and vicinity.
Harrisburg, Pa	Susquehanna River.
Kansas City, Mo	Missouri River from below Plattsmouth, Nebr., to 20 miles east of Kansas City; Kansas River to Manhattan, Kans.
Keokuk, Iowa ²	Mississippi River from Muscatine, Iowa, to Quincy, Ill.
La Crosse, Wis. ²	Mississippi River from Red Wing, Minn., to Prairie du Chien, Wis.
Little Rock, Ark	Arkansas River below Fort Smith.
Louisville, Ky. ¹	Ohio River from mouth of Kentucky River to Louisville; Kentucky River.
Memphis, Tenn. ¹	St. Francis River; Mississippi River from below Cairo to Helena, Ark.
Mobile, Ala. ¹	Tombigbee River and branches.
Montgomery, Ala. ¹	Rivers in Alabama, except the Tombigbee and branches, and northwest Georgia.
Nashville, Tenn. ¹	Cumberland River.
New Orleans, La. ¹	Mississippi River below Vicksburg; Red River below Shreveport; Ouachita and Atchafalaya rivers.
Omaha, Nebr	Missouri River from below Sioux City to Plattsmouth, Nebr.
Parkersburg, W. Va. ¹	Ohio River from Wheeling, W. Va., to Parkersburg.
Pittsburg, Pa. ¹	Allegheny and Monongahela rivers; Ohio River from Pittsburg to above Wheeling, W. Va.
Portland, Oreg	Rivers of Oregon, Washington, Idaho, and western Montana.
Raleigh, N. C	Rivers of North Carolina.
Richmond, Va	James River.
St. Louis, Mo. ¹	Mississippi River south of Quincy, Ill., to and including St. Louis; Missouri River below Kansas City; Illinois River.
St. Paul, Minn. ²	Mississippi River at and above St. Paul.
San Francisco, Cal.	Sacramento and San Joaquin rivers.
Shreveport, La. ¹	Red River in the vicinity of Shreveport.
Vicksburg, Miss. ¹	Mississippi River from below Helena, Ark., to Vicksburg.
Washington, D. C	Potomac River in the vicinity of Washington.

¹ Forecasts made daily throughout the year.

² Daily forecasts during season of navigation and in times of flood. Unmarked stations make forecasts only in case of especially high or low waters.

Following the descriptive text are given tables of danger-line stages, elevations of gage zeros above mean sea level, the drainage area in square miles above each station, and approximate discharges in thousands of cubic feet per second.

LOCATIONS OF RIVER STATIONS, DESCRIPTIONS OF GAGES AND BENCH MARKS, HEIGHTS OF DANGER LINES, ELEVATIONS, LOW WATERS, AND FLOOD MARKS.

ALBANY, GEORGIA.

Albany, Ga., is on the Flint River, 80 miles from its mouth. The drainage area above the station is 5,000 square miles.

The river gage is located at the foot of Broad street, just below the county bridge. It is made of pine board 1½ by 8 inches, and is in two sections. The first section (0 to 18.6 feet) is spiked to a cypress stump which stands at the edge of the water; the second (18.7 to 30.0) is spiked to a cypress pole. Both are painted white, with markings cut into the wood and painted black. The gage is the property of Mr. J. S. Clark, and was erected by him late in the year 1898 to replace one destroyed by flood.

Top of rail at Plant System depot is 42.2 feet above zero of gage and 184 feet above mean sea level. A bench mark which is cut in the lower iron pier of the county bridge is 10 feet above zero of the gage and 151.8 feet above mean sea level. Another, a spike in corner of Mase & Co.'s warehouse, corner Broad and Front streets, is 53.8 feet above zero of the gage and 195.6 feet above mean sea level.

Graduation is from zero to 30 feet above. Highest water was 31.6 feet on March 25, 1897; lowest -0.9 foot on October 9, 1895. Danger line is at 20 feet.

ALBANY, NEW YORK.

Albany, N. Y., is on the Hudson River, 150 miles from its mouth.

The gage in use is a self-registering tide gage, patterned after those used by the United States Coast and Geodetic Survey in former years. It is the property of the United States Engineer Corps, and is located on the east side of the State Street Bridge.

The bench mark, which was established in 1896 by the United States Engineer Corps, is on the southeast corner of the east basement window on the south or State street front of the United States Government building near Dean street. It is 18 feet above the zero of the gage, and 18.2 feet above mean sea level.

The highest water was 21.4 feet on February 9, 1857. It was due to back water. On October 4 and 5, 1869, the water reached a stage of 18.5 feet, the highest stage due to the rainfall alone. The lowest water was -1.2 feet on September 30, 1867.

ALBANY, OREGON.

Albany, Oreg., is on the Willamette River, 99 miles from its mouth, and 30 miles above Salem, Oreg. The drainage area above the station is 4,980 square miles.

The river gage is painted on an iron pier of the bridge. There is a depth of 8 feet of water below the zero. Navigation is suspended at a zero stage, as there are gravel bars both above and below Albany. The gage is the property of the Weather Bureau.

Top of rail at the Southern Pacific Railroad depot is 41.7 feet above zero of the gage, and 242 feet above mean sea level.

Graduation is from 3 feet below to 37 feet above zero. Highest water was 36 feet on December 8, 1861; lowest, 0.2 foot, on September 21, 1879. Danger line is at 20 feet.

ALEXANDRIA, LOUISIANA.

Alexandria, La., is on the Red River, 139 miles above its mouth. The distance to New Orleans is 351 miles. The width of river at low water is 705 feet. The drainage area above the station is 63,300 square miles.

The river gage belongs to the United States Engineer Corps. It is located on wharf post at Lower Town wharf. Markings are burnt on the gage.

Bench mark No. 3 (Merrill, 1872), the top projecting course of bricks in foundation of the court-house at the extreme east corner, is 35.5 feet above zero of the gage, and 78.7 feet above mean sea level. Bench mark 4 (Miller, 1883), is the top surface of the east corner of the lower iron plate of the iron pedestal of the southeast pillar of vestibule of the Alexandria court-house (river entrance). Elevation above zero of the gage, 37.9 feet; above mean sea level, 81.1 feet.

Graduation is from zero to 39 feet above. Highest water was 38.2 feet on June 13, 1892; lowest, -3.7 feet, on September 29, 1881. Danger line is at 33 feet.

ARKANSAS CITY, ARKANSAS.

Arkansas City, Ark., is on the Mississippi River, 635 miles from its mouth and 40 miles above Greenville, Miss. The river at low water is 3,200 feet wide. The drainage area above the station is 1,125,000 square miles.

The river gage, belonging to the Engineer Corps, is made of 2 by 8 inch plank, put up in sections, a part on piles at what was the southwest corner of old elevator building, and the low-water sections on piles of the railroad incline, south of the elevator. Markings are cut in the planks.

Bench mark, 3, is top of stone post in woods, 1,378 feet north of railroad shop, below Arkansas City. It is 820 feet from edge of woods, near a large burnt oak stump, and also a large blazed gum tree blazed with a triangle facing stone. The elevation above zero of gage is 40 feet, and 95.2 feet above mean sea level.

Graduation is from 3 feet below to 48 feet above zero. Highest water was 51.9 feet on March 29, 1897; lowest, -3.3 feet on November 9, 1895. Danger line is at 42 feet. The bank-full stage is 41.8 feet.

ARLINGTON (JEROME), MISSOURI.

Arlington (Jerome), Mo., is on the Gasconade River, 58 miles above its mouth, and 65 miles from Hermann, Mo. The width of the river at low water is 255 feet. The drainage area above the station is 2,800 square miles.

The river gage is located on the slope of the river bank, about 150 feet northwest of the Jerome station of the St. Louis and San Francisco Railroad. It is an oak gage, painted white marked with brass figures and copper tacks, and belongs to the Weather Bureau.

Bench mark is top of rail in front of Jerome station, about 150 feet southeast of gage; it is 33.0 feet above the zero of the gage, and 693.7 feet above mean sea level.

Graduation extends from 3 feet below to 24 feet above zero. Highest water was 26.5 feet on January 5, 1897; lowest, -2.7 feet, date unknown. The danger line is at 16 feet.

Old gage on St. Louis and San Francisco railroad bridge abandoned in the early part of the year 1893. Zero of new gage corresponds with that of old one.

ARTHUR CITY, TEXAS.

Arthur City, Tex., is on the Red River, 123 miles above Fulton, Ark., and 688 miles from the mouth of the river. The width of the river at low water is 450 feet. The drainage area above the station is 40,200 square miles.

The river gage is located on the southeast side of the Red River bridge, and attached to the first concrete pier from the embankment. It belongs to the Weather Bureau.

The bench mark is a huge rock about 12 feet square, perfectly smooth surface, lying 300 feet southeast of the Red River bridge in the stream. The surface of this rock is 0.3 foot above the zero of the gage. From all information that could be obtained the base of the rail above the gage is 410 feet above mean Gulf level at Biloxi, Miss., and 48 feet above the zero of the gage. This would make the elevation of the rock bench mark 362.3 feet above mean sea level, and that of the zero of the gage 362 feet.

Graduation is from zero to 40 feet above. Highest water was 37 feet on May 10, 1890; lowest, 2.1 feet in November and December, 1897. Danger line is at 27 feet. New gage erected in June, 1897, to replace one destroyed by driftwood. No change in zero.

AUGUSTA, GEORGIA.

Augusta, Ga., is on the Savannah River, 268 miles from its mouth. The width of river at low water is 855 feet. The drainage area above the station is 7,294 square miles.

The river gage belongs to the city of Augusta. It is vertical, of 2 by 8 inch oak plank, attached to upstream corner of first pier of city bridge. The zero of the gage is the low water of 1835.

There are bench marks as follows: Stone pavement opposite south corner of door of No. 212 Seventh street is 34.7 feet above zero of gage; top of iron door sill at 212 Seventh street is 35.2 feet above zero of gage; and the center of the corner stone (northeast corner) at Fifteenth and Broad streets is 37.8 feet above zero of gage. The zero of the gage is 100.4 feet above mean sea level.

There was a flood in 1796 known as the Yazoo freshet. The next destructive flood is known as the Harrison freshet, which occurred May 28, 1840; the whole city was inundated, the water reaching a height of 37.5 feet. On August 29, 1852, a height of 36.8 feet was reached; on January 11, 1865, 36.4 feet; and on July 31, 1887, 34.5 feet. The greatest flood was that of September 11, 1888, when the river reached 38.7 feet and the entire city was submerged; 10 persons were drowned and property was damaged to the amount of \$2,000,000.

Graduation is from zero to 39 feet above. Highest water was 38.7 feet on September 11, 1888; lowest, 0.0 in 1835. Danger line is at 32 feet.

BAGNELL, MISSOURI.

Bagnell, Mo., is on the Osage River at the mouth of Little Gravois Creek. The distance to the mouth of the Osage is 70 miles and to Hermann, Mo., on the Missouri, 105 miles.

The river gage is made of oak plank and is attached to cedar post. It is painted white, graduated with brass figures and copper tacks, and belongs to the Weather Bureau.

Bench mark consists of two wire nails driven into the stump of a limb of a white-oak tree. Limb is cut close to trunk of tree and is about 1 foot above ground. The tree is situated between the northeast bank of Little Gravois Creek and the northwest bank of the Osage River and at the top of slope to the creek; it is 20 feet southwest of gage. This bench mark is 34 feet above zero of gage and about 591 feet above mean sea level.

Graduation is from 1 foot below to 37 feet above zero. Highest water was 35.7 feet on December 22, 1895; lowest, 0.7 foot, from October 27 to November 1, 1894. Danger line is at 28 feet.

BEARDSTOWN, ILLINOIS.

Beardstown, Ill., is on the Illinois River, 70 miles above its junction with the Mississippi. The distance to Grafton, Ill., on the Mississippi, is 72 miles. The width of river at low water is 975 feet. The drainage area above the station is 24,700 square miles. Locks, 12 miles below the city, prevent the stage of the river falling below 6 feet.

The river gage is on the south side of channel pier of the Chicago, Burlington and Quincy Railroad bridge, and belongs to the railroad company. It is attached to a pile which is one of a long row. Gage is constructed of hard pine and graduation is cut into its face.

Bench mark, top of uppermost stone of northeast corner of foundation of reddish brick house at the foot of Jefferson street, is 20.6 feet above zero of gage and 443.6 feet above mean sea level. The top of tie on bridge is 34.6 feet above zero of gage and 457.6 feet above mean sea level.

Graduation is from zero to 24 feet above. Highest water was 21.3 feet in 1882; lowest, 0.0 on August 11 and 12, 1887. Danger line is at 12 feet.

BEAVER DAM, PENNSYLVANIA.

Beaver Dam, Pa., is on the Ohio River, 50 miles above Wheeling, W. Va., and 5 miles below the mouth of Beaver River.

River gage was constructed and is maintained by the Engineer Corps, by whom gage readings are furnished to the Weather Bureau. The gage is in two sections, the lower, zero to 14 feet, on the stone protecting crib in the river; the upper, 14 to 37 feet, is attached to the powerhouse foundation. Gage is of wood and is referred to stone bench marks built in the powerhouse foundation.

Graduation is from zero to 37 feet above. Highest water was 35.6 feet on January 8, 1895; lowest, 0.6 foot on September 6, 1894. Danger line is at 27 feet. At a zero stage there is 1 foot of water in the channel.

BISMARCK, NORTH DAKOTA.

Bismarck, N. Dak., is on the Missouri River, 1,309 miles from its mouth, and 195 miles above Pierre, S. Dak. The width of the river at low water is 675 feet. The drainage area above the station is 194,000 square miles.

The river gage is of wire-cable pattern and hangs from the truck stringer of the bridge of the Northern Pacific Railroad Company, 2 miles east of the city. It is kept in repair by the railroad company.

The gage zero coincides with low water of November 3, 1889, and is 1,616.8 feet above mean sea level. The top of the rail at the east end of the Northern Pacific depot is 53.2 feet above the zero of the gage and 1,670 feet above mean sea level. The top of the stringer from which the gage hangs is 1,690 feet above mean sea level.

Graduation is from zero to 73 feet above. Highest water was 27.1 feet on March 27, 1887; lowest, 0.0, on November 3, 1889. Danger line is at 14 feet for stations below. There is never any danger from flood at Bismarck.

BOONVILLE, MISSOURI.

Boonville, Mo., is on the Missouri River, 199 miles from its mouth, and 96 miles above Hermann, Mo. The river is 1,500 feet wide at low water. The drainage area above the station is 507,500 square miles.

The river gage in use since July 1, 1884, is on the southeast side of pier No. 1 of the Missouri River bridge at Boonville, 325 feet from the south shore abutment. The zero of the gage is 0.9 foot lower than the zero of the old gage in use previous to July 1, 1884, and back as far as July 8, 1875. Previous to the latter date the gage in use had its zero at the same level as that used after July 1, 1884. The gage is a 2 by 12 inch yellow-pine board, with black markings on a white ground. Zero of gage is low water of December 1, 1872. It belongs to the Weather Bureau.

Bench mark (Missouri River Commission) is a knob cut on north face of right-bank pier of the Missouri, Kansas and Texas Railroad bridge, on the third stone from the west end of the pier, in the twelfth course below the coping. Its elevation above zero of the gage is 25 feet, and above mean sea level 565 feet.

Graduation is from 2 feet below to 24 feet above zero. Highest water was 33.6 feet on June 1, 1844; lowest, -0.6 foot, on December 8, 1882, and January 3-5, 1891. Danger line is at 20 feet.

Commencing November 15, 1899, the standard wire-cable gage of the Missouri River Commission, on the Missouri, Kansas and Texas Railroad bridge, was used as the official gage. Zero elevation the same as that of the old gage.

BRIDGEPORT, ALABAMA.

Bridgeport, Ala., is on the Tennessee River, 390 miles from its mouth, and 170 miles above Florence, Ala.

The river gage is made of iron, is in three sections, and is fastened on the bank pier of the drawbridge. The lower section is inclined and is made of 60-pound railroad iron. The two upper sections are of one-half by 6 inch iron, each 12 feet in length, and are upright. The ownership of the gage is not a matter of exact record.

Bench mark on the southeast corner of second course of masonry of first pier of the bridge, in the east channel at East Bridgeport, is 22.1 feet above zero of the gage, and 615.7 feet above mean sea level.

Graduation extends from zero to 36 feet above. It can be extended to 42 feet by using the coping of the bridge. Highest water was 41 feet, during the flood of 1867; lowest water since 1895 was -0.2 foot, on October 9-12, 1897. Danger line is at 24 feet.

BROOKVILLE, PENNSYLVANIA.

Brookville, Pa., is on Red Bank Creek, 35 miles above its junction with the Allegheny River. The distance to Mahoning, Pa., on the Allegheny, is 41 miles. At low water the creek is 180 feet wide. The drainage area above the station is 400 square miles.

The river gage is on the first pier of the Allegheny Valley Railroad bridge over Red Bank Creek, at a point below the mouth of Sandy Creek. It belongs to the United States Engineer Corps. The bottom of the rail on the bridge is 40 feet above zero of the gage, and 1,213 feet above mean sea level.

Graduation extends from zero to 16 feet above. Highest water was 14 feet on June 1, 1889; lowest, -1.1 feet on June 2-17, 1897. Danger line is at 8 feet. At a zero stage there is 1 foot of water in the channel.

BUCHANAN, VIRGINIA.

Buchanan, Va., is on the James River, 305 miles from its mouth, and 48 miles above Lynchburg, Va. The width of the river at low water is 340 feet. The drainage area above the station is 2,058 square miles.

The old wooden gage was carried away by ice and high water on February 6, 1897. Since 1895, however, readings have been taken from the United States Geological Survey standard wire-cable gage. This latter gage is on the railroad bridge about the middle of the river. The markings are made on a plank which is beside the gage and fastened to the bridge.

Bench mark, top of a stone post under southwest corner of porch of the Chesapeake and Ohio Railroad depot, is 24.7 feet above zero of the gage and 805.7 feet above mean sea level. Top of rail in Norfolk and Western Railroad depot is 53 feet above zero of the gage and 834 feet above mean sea level.

Graduation is from zero to 20 feet above. It can be made as much above 20 feet as may be necessary. Highest water was 24.6 feet, on November 27, 1877; lowest, -0.6 foot, on April 27-May 2, 1896. Danger line is at 12 feet.

BURNSIDE, KENTUCKY.

Burnside, Ky., is on the Cumberland River, 434 miles from its mouth, and 177 miles above Carthage, Tenn. The river is 150 feet wide at low water. The drainage area above the station is 4,400 square miles.

The river gage is on the north bank of the south fork of the Cumberland River, about 200 feet from the wharf. The lower section (21 feet) is on the incline of the bank; the remainder is attached to trees. It is made of wood, painted, and marked with brass figures and copper tacks. It is the property of the Weather Bureau. The zero of the gage is 589 feet above mean sea level.

Graduation is from 2 feet below to 70 feet above zero. Highest water was 62 feet, on March 31, 1886; lowest, -1.6 feet on November 8 and 9, 1895. Danger line is at 50 feet.

CAIRO, ILLINOIS.

Cairo, Ill., is on the Ohio River, 1 mile above its junction with the Mississippi. The distance to Memphis, Tenn., is 230 miles, and to the mouth of the Mississippi, 1,073 miles. The river is 4,752 feet wide at low water. The drainage area above the station is 914,400 square miles, of which about 201,000 square miles belongs to the Ohio River basin.

The river gage is on the incline of the levee at the foot of Fourth street. It is about 234 feet long, and consists of 10 by 12 inch oak timbers, laid nearly flush with the face of the levee on benches 12 feet apart and set $3\frac{1}{2}$ feet in the ground. To the upper face of the timbers is spiked an iron strap, $4\frac{1}{2}$ inches wide by three-eighths inch thick, marked in feet and tenths. From 51 to 54 feet the gage is vertical. It was built by the United States Engineer Corps in 1873 and reconstructed by the Weather Bureau in 1893.

Bench mark, a small hole in center of copper bolt in northwest face of custom-house wall, distant 23.6 feet from the northwest corner and 3 feet above ground, is 47.1 feet above zero of the gage, and 316.7 feet above mean sea level. A second bench mark, a small hole in a copper bolt in southeast side of building containing offices of the trustees of Cairo public-school property, located on Washington avenue between Eighteenth and Nineteenth streets, bolt being 14.6 feet from the southeast corner and 3.7 feet below surface of water table, is 48.4 feet above zero of the gage and 318 feet above mean sea level.

Graduation is from 2 feet below to 54 feet above zero. Highest water was 52.2 feet, on February 27, 1883; lowest, -1.0 foot, on December 24, 1871. Danger line is at 45 feet. The bank full stage is 39.3 feet.

CALHOUN FALLS, SOUTH CAROLINA.

Calhoun Falls, S. C., is on the Savannah River, 347 miles from its mouth and 79 miles above Augusta, Ga. The drainage area above the station is 2,712 square miles.

The gage is of the standard wire cable pattern of the United States Geological Survey, to which it belongs. It is located on the Seaboard Air Line bridge about 3 miles west of the town, on the center span of that portion of the bridge over the west channel.

The center of the pulley is 193 feet from the initial point, and is 55.2 feet above zero of the gage. The zero point on the graduation rod is 10 feet from the center of the pulley. The top of the iron stringer under the cross-ties near the gage is 54 feet above zero of the gage, and 408.5 feet above mean sea level. The top of the east end of the pier, west channel, is 30.8 feet above zero of the gage, and 385.3 feet above mean sea level.

Highest water since 1896 was 13.6 feet on March 16, 1899; lowest, 1.6 feet on October 9, 1897, and July 3-4, 1898.

CAMDEN, ARKANSAS.

Camden, Ark., is on the Ouachita River, 340 miles from its mouth, and 240 miles above Monroe, La. The river is 210 feet wide at low water. The drainage area above the station is 5,700 square miles.

The river gage, which is owned by the United States Engineer Corps, is nearly opposite Mr. Ritchie's store. It is made of heart pine, and is attached to a cypress tree. It is painted white, with red markings.

Bench mark A (Ewens, 1890) is a small cross cut in center of the granite doorsill of the easternmost door of Mr. Ritchie's storehouse. It is 62.4 feet above zero of the gage, and 132.5 feet above mean sea level.

Bench mark B (Ewens, 1890) is the top of a spike driven horizontally into one of the mortar courses of the downstream face of old Tyra Hill warehouse on Washington street. It is 1.3 feet above the surface of the ground, and 4.7 feet from the Washington street face of the building. Elevation above zero of the gage, 55.2 feet, and above mean sea level, 125.3 feet.

Graduation is from zero to 50.4 feet above. Highest water was 46 feet on May 12, 1882; lowest, 1.7 feet, on October 22-25, 1887. Danger line is at 39 feet.

CAMDEN, SOUTH CAROLINA.

Camden, S. C., is on the Wateree River, 45 miles from its mouth, and 40 miles above Wateree, S. C. The width of river at low water is 315 feet. The drainage area above the station is 2,635 square miles.

The river gage is in two sections. The lower (17 feet) is made of 2 by 8 hard pine, and is attached to the central granite pier of South Carolina and Georgia Railroad bridge; it is painted white, and marked with brass figures and copper tacks. The upper section (20 feet) is painted black on red iron framework of bridge. The gage was erected by the United States Engineer Corps and adopted by the Weather Bureau in 1891. The top of rail on the bridge is 47 feet above the zero of the gage and 222 feet above mean sea level.

Graduation is from 1 foot below to 36 feet above zero. Highest water was 31.5 feet in September, 1886; lowest, 0.0, in June, 1884. Danger line is at 24 feet.

CAMERON, PENNSYLVANIA.

Cameron, Pa., is on the Driftwood Branch, 12 miles above Driftwood, Pa.

The river gage is painted on the railroad bridge pier, belongs to the Pennsylvania Railroad, and is graduated in feet and half feet. Zero of the gage is 941.8 feet above mean sea level.

Graduation is from 5 to 28 feet above zero. Highest water was 13 feet on May 31, 1889; lowest since 1895, -0.2 foot on September 14, 1897. Danger line is at 10 feet.

Observations were discontinued on May 16, 1899.

CANTON, GEORGIA.

Canton, Ga., is on the Etowah River, 65 miles above Rome, Ga. The river at low water is 141 feet wide. The drainage area above the station is 604 square miles.

The river gage is a vertical timber attached to pier of iron bridge. It is of pine, painted, and graduations are also painted. It belongs to the Weather Bureau. Zero of gage is 881 feet above mean sea level.

Graduation is from 1 foot below to 25 feet above zero. Highest water was 23 feet in January, 1892; lowest, -0.8 foot on September 18-21, 1896, and September 26, 1897. Danger line is at 20 feet.

CARLTON, GEORGIA.

Carlton, Ga., is on the Broad River, 3 miles above the mouth of South Fork, 30 miles to the mouth of Broad River, and 95 miles above Augusta, Ga. The drainage area above the station is 762 square miles.

The gage is located on the railroad bridge of the Seaboard Air Line, 3 miles east of Carlton. It is of the standard wire cable pattern of the United States Geological Survey, to which it belongs. The rod of the gage is fastened to the outside of the guard rail on the upstream side of the bridge. The initial point for sounding is the end of the iron bridge at the right bank upstream, and the zero of the gage is 37 feet from the initial point and 4 feet from the center of the pulley. The top of the upstream iron girder under the cross-ties, 30 feet from the initial point, is 51 feet above the zero of the gage, and 435.5 feet above mean sea level. Center of pulley is 52.2 feet above zero of gage, and 436.7 feet above mean sea level.

Highest water since 1896 was 18.8 feet on September 2, 1898; lowest, 1.5 feet on September 13-22 and October 1-10, 1897.

CARTHAGE, TENNESSEE.

Carthage, Tenn., is on the Cumberland River, 82 miles above Nashville, Tenn., and 257 miles from the mouth of the river. The width of the river at low water is 375 feet. The drainage area above the station is 9,800 square miles.

The gage is located southwest of the town and is in two sections. From 1 foot below to 20 feet above zero it is on the incline of the bank, being fastened with heavy iron bolts to large oak posts; from 20 to 55 feet it is fastened to a large cottonwood tree with iron bands. It is the property of the Weather Bureau, and is marked with brass figures and copper tacks. The zero of the gage is 443 feet above mean sea level.

Graduation is from 1 foot below to 55 feet above zero. Highest water was 54.3 feet on April 7, 1886; lowest, -0.2 foot from October 22-30, 1895. Danger line is at 40 feet.

CASCADE LOCKS, OREGON.

Cascade Locks, Oreg., is on the Columbia River, 49 miles above the junction of the Willamette.

The gage is a wooden plank 8 inches wide, belongs to, and is maintained by the United States Engineer Corps.

Bench mark is the track of the Oregon Railway and Navigation Company, one-eighth of a mile distant. Elevation of zero of gage above mean tide level at Astoria, 90 feet.

Highest water was 49.6 feet on June 6, 1894; lowest, -4.0 feet from December 19 to 21, 1884.

CATLETTSBURG, KENTUCKY.

Catlettsburg, Ky., is on the Ohio River, 651 miles from the mouth of the river, and 39 miles above Portsmouth, Ohio. The width of river at low water is 600 feet. The drainage area above the station is 56,700 square miles.

The river gage consists of a line of stones, with markings cut in them, extending down the bank to the wharf. Gage was adjusted in August, 1895, so as to make the zero agree with top of Greenup bar. It is the property of the United States Government.

Bench mark, cut in corner stone of the store on corner of Front and Division streets, is 53.7 feet above the old zero of gage, which corresponds to low water of 1883, and 537.9 feet above mean sea level.

Graduation is from zero to 52.5 feet above. Highest water was 72 feet on February 12, 1884; lowest, 0.1 foot September 21, 1894. Danger line is at 50 feet.

CEDAR RUN, PENNSYLVANIA.

Cedar Run, Pa., is on Pine Creek, 35 miles above its junction with the West Branch of the Susquehanna River. The distance to Nisbet, Pa., on the West Branch, is 45 miles.

The river gage, belonging to the railroad company, is painted on the bridge pier and graduated to feet and tenths. Zero of gage is 798 feet above mean sea level.

Graduation is from 2.5 to 22 feet above zero. Highest water was 12 feet on June 1, 1889; lowest, -2.8 feet on September 14, 15, 16, 18, 19, 1897, and in August, September, and October, 1899. Danger line is at 13 feet.

CHARLESTON, TENNESSEE.

Charleston, Tenn., is on the Hiwassee River, 18 miles above its mouth and 53 miles above Chattanooga, Tenn., on the Tennessee River. The width of river is 300 feet. The drainage area above the station is 2,200 square miles.

The river gage belongs to the Engineer Corps. It is situated on the southwest side of pier No. 1 of the Southern Railway bridge over the Hiwassee River 125 feet from the southeast bank. It is a vertical triangular piece of heart pine bolted to pier. It is painted white and markings are painted in black.

Bench mark is a cross cut in the top surface of the upper course of stone on pier. It is 35 feet above the zero of gage, and 721.2 feet above mean sea level.

The elevation of the rail on the bridge is 39.2 feet above the zero of the gage, and 725.4 feet above mean sea level.

Graduation is from zero to 35.7 feet above. Highest water was 32.2 feet on March 31, 1886; lowest, -0.1 foot, on December 1-2, 1894. Danger line is at 22 feet.

CHARLESTON, WEST VIRGINIA.

Charleston, W. Va., is on the Great Kanawha River, 61 miles above Point Pleasant, W. Va., at its mouth. The river is 600 feet wide. The drainage area above the station is 9,200 square miles.

The river gage, owned by the Engineer Corps, is cut on the north face of the main pier of the Charleston and South Side bridge. Zero of gage is referred to several bench marks and was carefully set from established benches connected with Great Kanawha River improvement. It is 554.4 feet above mean sea level.

Graduation is from 0.1 foot below to 46.7 feet above zero. Highest water was 46.9 feet on September 29, 1861; lowest, -0.1 foot, on September 15, 1881. Danger line is at 30 feet. Lock and Dam No. 6 now prevent water from falling below 4.8 feet.

CHATTANOOGA, TENNESSEE.

Chattanooga, Tenn., is on the Tennessee River, 430 miles from its mouth and 160 miles above Decatur, Ala. The river is 1,200 feet wide at low water. The drainage area above the station is 21,418 square miles.

There are two river gages, one known as "old river gage," and the other as "high-water gage." The old gage is located about 50 yards upstream from the foot of Lookout street. It consists of two sections, an incline and an upright. The inclined section consists of two lengths of steel rail, each 20 feet long, inverted and marked by cuts in the metal. The upright is a stick of 6 by 8 inch heart pine, 46 feet in length, painted, and with markings cut in. The high-water gage is located about 30 yards west of the foot of Market street. It consists of two sections—an incline and an upright. The inclined section begins at 35 and ends at 53 feet. It is a stick of heart pine supporting a steel strap on which are cut the feet and tenths. The upright section is 50 yards north of the incline on the southeast corner of the brick ice factory. It is a steel plate, 12.5 feet long and 6 inches wide, graduated from 53 to 65 feet. The entire structure is painted, and is owned by the Weather Bureau.

Bench mark now in use is the top of the water table on southeast corner of the United States post-office building on Eleventh street, between Market and A streets. Elevation is 74.4 feet above zero of gage, and 705 feet above mean sea level.

Graduation is from 2 feet below to 65 feet above zero. Highest water was 58.6 feet on March 11, 1867; lowest, 0.0, in September, 1837, on September 14, 1881, and September 19, 1883. Danger line is at 33 feet.

CHERAW, SOUTH CAROLINA.

Cheraw, S. C., is on the Pedee River, 100 miles above Smiths Mills, S. C., and 145 miles from the mouth of the river. The river is 450 feet wide at low water. The drainage area above the station is 6,960 square miles.

The river gage is of pine, 1 by 12 inch board, painted white and graduated in black paint. It is attached to the Cheraw toll bridge. It was erected by the Engineer Corps in 1887, and adopted by the Weather Bureau in 1891. The top of rail on the Cheraw and Darlington Railroad bridge, near Cheraw, is 58 feet above zero of gage, and 108 feet above mean sea level.

Graduation is from zero to 38 feet above. Highest water was 37.3 feet on March 11, 1875; lowest, 0.0, in August, 1866. Danger line is at 27 feet.

CHESTER, ILLINOIS.

Chester, Ill., is on the Mississippi River, 1,189 miles from its mouth and 116 miles above Cairo, Ill. The width of river at low water is 2,400 feet. The drainage area above the station is 709,000 square miles.

The river gage is in three sections. The first section (1 foot below to 3 feet above zero) and the second (1.3 to 22.7 feet) are on the bank of the levee, while the third (22.7 to 40 feet) is located on warehouse. The inclined sections are made of 3 by 8 oak stringers, supported on seven posts 10 inches square. Markings are cut in half-inch iron straps, which are bolted to the 8-inch face of the first section and to the 3-inch face of the second. The upright section on the warehouse is made of 2 by 8 oak timber, and is graduated in copper tacks. The gage belongs to the United States Engineer Corps.

U. S. P. B. M. No. 38 is a horizontal copper bolt in water table of drug store on northeast corner of Schuchert's Block. It is 39.3 feet above zero of the gage and 379.3 feet above mean sea level.

Graduation is from 1 foot below to 40 feet above zero. Highest water of record was 31.2 feet, on May 21, 1892. A much higher stage is said to have been reached in 1844. Lowest water was -1.8 feet on December 24 and 25, 1897. Danger line is at 30 feet.

Injuries at various times threw the inclined sections somewhat out of adjustment, and the following corrections to the readings are therefore necessary:

From January 1, 1896, to February 27, 1899, inclusive:

Below 3 feet add 0.15 to reading.

From 3 to 7 feet add 0.20 to reading.

From 7.1 to 8.5 feet add 0.15 to reading.

From 8.6 to 15.5 feet add 0.10 to reading.

From February 28, 1899, to December 31, 1899, inclusive:

Below 3 feet add 0.15 to reading.

From 3 to 7 feet add 0.20 to reading.

From 7.1 to 8 feet add 0.10 to reading.

The necessary corrections have been applied to the highest and lowest stages given above.

CINCINNATI, OHIO.

Cincinnati, Ohio, is on the Ohio River, 499 miles from its mouth, and 86 miles above Madison, Ind. The width of river at low water is 1,050 feet. The drainage area above the station is 71,300 square miles.

The river gage is at the city waterworks, and is owned by the Weather Bureau. It is partly in the main building of the waterworks, thence extends along the ground to the face wall of the supply pipe, thence along the coping of the wall to the west end of it, and thence down the end of the wall to the zero point. The zero of the gage corresponds to a line from the bottom of the river on Four-mile Bar, above the city, to the bottom at Culloms Ripple, 3.5 miles below the city.

The city datum is 1.8 feet above zero of the gage and 426.3 feet above mean sea level. The upper level of Miami Canal is 123.5 feet above zero of the gage and 548 feet above mean sea level.

Bench mark (new) is a hexagonal copper bolt inserted in the front of the water table in the Hamilton County court-house. It is 122.4 feet above zero of the gage, and 546.9 feet above mean sea level.

Graduation is from zero to 72 feet above. Highest water was 71.1 feet, on February 14, 1884; lowest, 1.9 feet, on September 17-19, 1881. Danger line is at 50 feet. At 48 feet the cellars along Front street begin to fill, at 51 feet the levee is entirely covered, and at 60 feet the distilleries and cattle yards are flooded.

CLAIBORNE, ALABAMA.

Claiborne, Ala., is on the Alabama River, 95 miles above its mouth, and 125 miles above Mobile, Ala. The drainage area above the station is 19,900 square miles.

The river gage was erected by the United States Engineer Corps and transferred to the Weather Bureau in December, 1893. It was located at the lower landing, on inside of downstream timber of cotton slide. Graduation was made by nails driven into the inclined timber.

Bench mark, an iron bolt in a rock, was 31.3 feet above zero of the gage.

Graduation was from zero to 60 feet above. Highest water was 40.5 feet on January 25 and 26, 1892; lowest, -1.5 feet, in November, 1891. Danger line is at 25 feet.

Gage became unserviceable and station was discontinued March 31, 1897.

CLARION, PENNSYLVANIA.

Clarion, Pa., is on the Clarion River, 21 miles above its mouth, and 24 miles above Parker, Pa., on the Allegheny. The width of river at low water is 162 feet. The drainage area above the station is 865 square miles.

The river gage is on the north abutment of the Clarion County bridge over Clarion River. The gage is partly on the abutment and partly on a natural rock (the foundation of the abutment), and has a stone, 4.5 feet in length, planted at the foot of the natural rock, sunk flush with the water line as it stood when the gage was put up, the top surface of the planted stone being the zero of gage. Graduation is painted on the stone. Bridge was rebuilt in 1894, and the gage partially destroyed thereby. Zero of gage is 25.6 feet below top line of the abutment, and about 1,052 feet above mean sea level.

Graduation is from 3 feet below to 22 feet above zero. Highest water was 15.2 feet on May 21, 1894; lowest, -1.4 feet on September 4, 5, 1894. Danger line is at 10 feet.

CLARKSVILLE, VIRGINIA.

Clarksville, Va., is on the Roanoke River, 155 miles from its mouth, and 65 miles above Weldon, N. C. The drainage area above the station is 7,344 square miles.

The United States Geological Survey gage on the Dan River is now used as the official gage. The graduation rod is fastened to the guard rail of the third span west of the Southern Railway bridge. The distance from the zero of the rod to the outside of the pulley wheel is 3 feet; the length of the wire rope about 33 feet.

Tradition gives a height of 27 feet on November 27, 1877; the highest water recorded was 17 feet on March 21, 1899; lowest, -0.4 foot on September 13-17, and 21, 1897. Danger line is at 12 feet.

CLINTON, TENNESSEE.

Clinton, Tenn., is on the Clinch River, 46 miles above its mouth at Kingston, Tenn. The width of river at low water is 282 feet. The drainage area above the station is 2,750 square miles.

The river gage is attached to the middle pier of the Southern Railway bridge over the Clinch River. It is made of heart pine, 4 by 10 inches, in two sections, the first from zero to 5 feet, and the second from 5 to 48 feet; it is painted white and graduated in copper tacks. The base of rail on bridge is 57.7 feet above zero of gage and 840 feet above mean sea level.

Graduation is from zero to 48 feet above. Highest water was 45 feet on March 31, 1886; lowest; 0.0, on December 4-8, 1883. Danger line is at 25 feet.

COLUMBIA, SOUTH CAROLINA.

Columbia, S. C., is on the Congaree River, 37 miles above its confluence with the Wateree. The distance to St. Stephens, on the Santee, is 102 miles. The drainage area above the station is 7,300 square miles.

The river gage is located on the southwest corner of the third granite pier from the eastern end of the Gervais street bridge over the Congaree River, 425 feet from the eastern bank. The last 7 feet of the supporting structure is of wood, securely fastened to the top of the granite pier. It is a standard Weather Bureau brass gage, and the face of the gage is flush with the surface of the pier.

The bench mark is the top of the rail of the South Carolina and Georgia Railroad at the union depot on Gervais street. It is 102.6 feet above the zero of the gage and 336 feet above mean sea level.

The graduations in feet are painted on the granite pier from zero to 28 feet; from 29 to 35 feet they are painted on the gage. The graduations extend from 0.4 foot below to 34.7 feet above zero. Highest water was 34.4 feet in September, 1852; lowest, -0.4 foot on January 20, 1893. Danger line is at 15 feet.

COLUMBIA, TENNESSEE.

Columbia, Tenn., is on the Duck River, 66 miles above its mouth, and 76 miles above Johnsonville, Tenn. The width of river at low water is 150 feet. The drainage area above the station is 1,100 square miles.

The river gage is on the north side of the Columbia and Nashville Turnpike Company's bridge over Duck River. It belongs to the Weather Bureau, and consists of 1½ by 2 inch oak timber and is attached to the pier. It is painted white with black graduations.

The bench mark is the top of step at south entrance of court-house, and is 87.4 feet above the zero of gage and 606.8 feet above mean sea level.

Graduation is from zero to 38 feet above. Highest water was 33.2 feet on March 9, 1891; lowest, -0.4 foot, date unknown. Danger line is at 28 feet.

COLUMBIA, VIRGINIA.

Columbia, Va., is on the James River, 167 miles from its mouth, and 57 miles above Richmond, Va. The width of river at low water is about 1,000 feet. The drainage area above the station is 5,800 square miles.

The river gage, 750 feet below the mouth of the Rivanna River, is built in five sections; the first, from zero to 2 feet below zero, is on the sloping bank in front of the Chesapeake and Ohio depot; the second, from zero to 15 feet, is vertical, and is located in the mouth of the small ravine formed by the flow of water from the pump to the large supply water tank of the Chesapeake and Ohio Railroad; the third extends vertically from 15 to 17 feet, and is located on the south side of the framework of the pump; the fourth, from 17 to 30 feet, is vertical and located on the north side of the framework; the fifth, from 30 to 42 feet, vertical, is located against the framework of the large supply water tank, extending to the bottom of it. The gage is built of 2 by 12 inch wood with galvanized iron facing, and is the property of the railroad company.

The bench mark is a large spike driven in the west side of a large sycamore tree in front of depot, and is at the same level as the top of the rail of the Chesapeake and Ohio Railroad in front of the depot. Elevation is 29.8 feet above zero of gage and 206 feet above mean sea level.

Graduation is from 2 feet below to 42 feet above zero. Highest water was 40 feet on September 30, 1870; lowest, -1.5 feet on October 25, 1892. Danger line is at 18 feet.

COLUMBUS, GEORGIA.

Columbus, Ga., is on the Chattahoochee River, 140 miles from its mouth, and 50 miles above Eufaula, Ala. The drainage area above the station is 4,900 square miles.

The river gage is set in two sections; the first, from -2 to 20 feet, is nailed on downstream side of brick pier in river, near the east bank; the second, from 20 feet upward, is fastened to pier on east bank. Duplicate gage, reading from -1 to 9 feet, is fastened to the face of a pile about midway of the wharf.

The top of the stone foundation of pier in river at its southeast corner is 18.6 feet above zero of gage. The top capstone, under side of lower chord of bridge, is 44.4 feet above zero of gage.

Graduation is from 2 feet below zero. Highest water was 60 feet in March, 1886; lowest, -1.5 feet on October 10-16, 18, 1897. Danger line is at 20 feet.

Station was discontinued on October 31, 1898.

COLUMBUS, MISSISSIPPI.

Columbus, Miss., is on the Tombigbee River, 303 miles from its mouth, and 148 miles above Demopolis, Ala. The width of river at low water is 160 feet. The drainage area above the station is 4,300 square miles.

The river gage is a new one erected by the Weather Bureau. It is built of 3 by 10 inch hard pine, in three perpendicular sections, each 15 feet in length. It is fastened to the blue rock bank with 20-inch spikes. Graduations are in brass figures and copper tacks.

There is a bench mark on the bridge near the gage. It is 44.2 feet above zero of the gage and 179.9 feet above mean sea level. Top of rail at depot of Southern Railway is 55.2 feet above zero of the gage and 190.9 feet above mean sea level.

Graduation is from 5 feet below to 40 feet above zero. Highest water was 42 feet on April 8, 1892; lowest, -3.9 feet on October 26, 1893. Danger line is at 33 feet.

COLUMBUS, OHIO.

Columbus, Ohio, is on the Scioto River, 110 miles above Portsmouth, Ohio, at its mouth. The width of the channel at low water is about 280 feet. The drainage area above the station is 1,139 square miles.

The river gage is a standard Weather Bureau brass gage, and is located on the west face of the east pier of the Mound street bridge over the Scioto River. It is white enameled with black enameled graduations. The foot markings are 6 by 4 inches, cut 1 inch deep in the stone, and painted white.

Bench mark is the city datum, which latter is the top of a stone in the foundation wall in the northeast corner of the statehouse, 5 feet above broad stone platform. The top of the stone in the wall is 780.3 feet above mean sea level, and 87 feet above the zero of the gage.

Graduation is from zero to 25 feet above. Highest water was 21.3 feet on March 23, 1898; lowest not definitely known. Danger line is at 17 feet.

COLUSA, CALIFORNIA.

Colusa, Cal., is on the Sacramento River, 146 miles above its mouth and 76 miles above Sacramento, Cal. The drainage area above the station is 14,900 square miles.

The river gage is located on the west side of Jones's warehouse. It is made of pine, with white graduations on a black ground. It belongs to the Weather Bureau.

Graduation is from 18 to 28 feet above zero. Highest water was 28.8 feet in May, 1892; lowest, 0.4 foot, date unknown. Danger line is at 25 feet.

CONFLUENCE, PENNSYLVANIA.

Confluence, Pa., is on the Youghiogheny River at the mouth of Castlemans River and 59 miles from the mouth of the former. It is 44 miles above West Newton, Pa. The width of the river at low water is 330 feet. The drainage area above the station is 782 square miles.

The lower section of the river gage, 4 feet in length, is fastened to a rock; the upper section, 10 feet in length, is attached to a tree. Both are graduated to feet and inches, the first with copper tacks, the second painted. Zero of the gage is 1,324 feet above mean sea level and 23 feet below the Baltimore and Ohio Railroad track.

Highest water was 18 feet on August 21, 1888; lowest, -0.8 foot on September 14-29, 1884. Danger line is at 10 feet.

CONWAY, SOUTH CAROLINA.

Conway, S. C., is on the Waccamaw River, 40 miles from Winyaw Bay.

The river gage is attached to the Conway toll bridge near the draw, and about the center of the stream. Graduation is painted on the gage, which is made of hard pine and belongs to the United States Engineer Corps.

Bench mark, a cross cut on a step of the court-house, is 24 feet above zero of the gage, and 49 feet above mean sea level.

Graduation is from zero to 10 feet above. Highest water was 9 feet on February 9, 1895; lowest, 0.0 on August 16, 1889. Danger line is at 7 feet.

CORDOVA, ALABAMA.

Cordova, Ala., is on the Black Warrior River, 155 miles from its mouth and 65 miles above Tuscaloosa, Ala. The width of river at low water is 250 feet. The drainage area above the station is 237 square miles.

The river gage is made of pine plank and is secured to stone pier of the Kansas City, Memphis and Birmingham Railroad bridge, about 30 feet from shore. It is marked by copper tacks, with figures painted in black on a white ground, and was evidently erected by the United States Engineer Corps.

Graduation is from 2.1 feet below to 55 feet above zero. Highest water was 57 feet on April 8, 1892; lowest, -2.6 feet on September 28 and 29, 1896. Danger line is at 20 feet.

Station was discontinued on June 30, 1897.

COUSHATTA, LOUISIANA.

Coushatta, La., is on the Red River, 299 miles from its mouth and 160 miles above Alexandria, La. The width of river at low water is 375 feet. The drainage area above the station is 59,300 square miles.

The river gage is located on the east bank of Coushatta Bayou in rear of E. Lisso's place. It is made of pine, a portion attached to an oak pile in the bayou, and the remainder, which is inclined, attached to posts inside the embankment. It is graduated with tacks, painted, and belongs to the Weather Bureau.

U. S. P. B. M. No. 57 is head of copper bolt in stone under ground in northwest corner of court-house yard in Coushatta, 3.3 feet from the northern fence line, 3.3 feet from western fence line, and 108.9 feet from northwest corner of court-house. It is 35.9 feet above zero of gage, and 131.3 feet above mean sea level. The cap of bench mark is 4.1 feet higher.

Graduation is from 2 feet below to 44 feet above zero. Highest water was 39.2 feet on June 5, 1892; lowest, -0.6 foot, date unknown. Danger line is at 30 feet.

DANVILLE, VIRGINIA.

Danville, Va., is on the River Dan, 55 miles above the confluence of the Dan and Staunton rivers, at Clarksville, Va. The width of river at low water is 750 feet. The drainage area above the station is 1,900 square miles.

The river gage is made of pine timber, and is attached to the first pier of the iron bridge between North and South Danville. It is painted, is graduated in brass figures and copper tacks, and belongs to the Weather Bureau. Top of rail in Southern Railway depot is 33.7 feet above zero of the gage, and 413 feet above mean sea level.

Graduation is from 1 foot below to 25 feet above zero. Highest water was 13.1 feet on March 20, 1899; lowest, -0.4 foot, on August 5-10, 1896, and March 28-29, 1898. Danger line is at 8 feet.

DARDANELLE, ARKANSAS.

Dardanelle, Ark., is on the Arkansas River, 256 miles from its mouth and 80 miles above Little Rock, Ark. The width of the river at low water is 2,100 feet. The drainage area above the station is 157,000 square miles.

The river gage is made of pine with black graduations on a white ground. It is fastened vertically to the piling of the pontoon bridge, and is owned by the bridge company.

There is no reference bench mark in the immediate vicinity. The nearest one is at Russellville, Ark., about 5 miles distant, and is the bottom of a square hole cut in the stone foundation to the main entrance of the court-house. It is on the right of the entrance going into the building, and its number is XVI. Its elevation above mean sea level is 348.2 feet.

Graduation is from zero to 31 feet above. Highest water was 27.9 feet on May 18, 1892; lowest, -0.7 foot, on October 29-November 3, 1897. Danger line is at 21 feet.

DAVENPORT, IOWA.

Davenport, Iowa, is on the Mississippi River, 1,593 miles from its mouth, and 31 miles above Muscatine, Iowa. The width of the river at low water is 2,640 feet. The drainage area above the station is 93,000 square miles.

The river gage, which belongs to the United States War Department, is made of cast bronze, the graduation marks being planed into the metal. The figures are of brass and are riveted on the gage. The gage is fastened to the draw pier of the Government bridge, on the upstream side and inside of stone protection crib, and is connected with the river by a large well. Zero of gage is low water of 1864.

Permanent bench mark, 40, M. R. C., on base of stone tower of United States arsenal stone building at lower end of Arsenal Island, Rock Island, Ill. It is center of hole in copper bolt in east side of northeast corner, about 4 feet from ground. It is 35.1 feet above zero of gage, and 576.2 feet above mean sea level.

The city datum is 4.7 feet below the zero of the gage, or 536.4 feet above mean sea level.

Graduation is from 3 feet below to 20 feet above zero. Highest water was 19.4 feet, on June 27, 1892; lowest, -0.8 foot, on January 6, 1890, and November 30, 1898. Danger line is at 15 feet.

DAVIS ISLAND DAM, PENNSYLVANIA.

Davis Island Dam, Pa., 6 miles below Pittsburgh, is on the Ohio River, 35 miles above Beaver Dam, Pa., and 960 miles from the mouth of the river. The width of river at low water is 1,344 feet.

The lower section (0 to 17 feet) of the river gage is located on the lower end of the lock wall and is cut into the stone. From 17 to 26.6 feet the marks are cut in the steps leading to the office. The gage belongs to the United States Engineer Corps. The zero gage is the sill of lock and is 690.3 feet above mean sea level.

Graduation is from zero to 26.6 feet above. Highest water was 32.3 feet, on February 7, 1884; lowest, 0.7 foot, on September 5, 1894. Danger line is at 25 feet.

DAYTON, OHIO.

Dayton, Ohio, is on the Miami River, 69 miles above its mouth. The distance to Madison, Ind., on the Ohio, is 134 miles. The width of river at low water is 600 feet. The drainage area above the station is 2,200 square miles.

The river gage is on the west end of the south pier of the Main street bridge, made of pine, painted white, and marked with copper tacks and brass figures. It belongs to the Weather Bureau.

Bench mark, top of lower course of masonry of monument (southwest corner), south of bridge, is 25 feet above zero of gage, and 749 feet above mean sea level. Top of rail in Union depot is 13 feet above zero of gage, and 737 feet above mean sea level.

Graduation is from 1 foot below to 23 feet above zero. Highest water was 21.3 feet in 1866; lowest, 0.0, on October 27, 1895. Danger line is at 18 feet.

DELHI, LOUISIANA.

Delhi, La., is on Bayou Macon, 60 miles above its junction with the Tensas River. The distance to New Orleans is 410 miles. The width of the river is about 90 feet.

The river gage is on the north post of the first trestle west of the turntable of the Vicksburg, Shreveport and Pacific Railroad bridge, over Bayou Macon. It is made of 2 by 10 inch cypress, painted white, and marked in copper tacks. It belongs to the Weather Bureau. The zero of gage, the low water of 1881, is 40.8 feet below the top of rail on bridge, and 49.4 feet above mean sea level.

Graduation is from zero to 36 feet above. Highest water was 37.5 feet in 1882; lowest, -0.9 foot, date unknown. Danger line is at 20 feet.

DEMOPOLIS, ALABAMA.

Demopolis, Ala., is on the Tombigbee River, at the mouth of the Black Warrior River, and 155 miles from the mouth of the former. The distance to Mobile is 231 miles. The river is 300 feet wide at low water. The drainage area above the station is 15,280 square miles. The river gage is on the south bank of the Big Tombigbee River at Demopolis. The top of the gage lies 20 feet northwest of the northwest corner of Webb's warehouse; it is attached to the sloping lime-rock bank by iron rods and two wooden posts. It is made of 8 by 8 inch heart pine, with an iron strap, 2 by three-eighths inches, fastened to the top side throughout its entire length. The foot marks are of brass, while the intermediate markings are cut in the strip. The gage is the property of the Weather Bureau.

Bench mark on the northeast corner of Washington and Strawberry streets, on the southeast corner of Cheshire Webb Building, on east end of base stone under window east of east entrance, 6 inches above sidewalk, being top of copper bolt leaded vertically, is 100.2 feet above zero of the gage, and 128.4 feet above mean sea level. Top of track at Southern Railway freight depot is 82.1 feet above zero of the gage, and 110.3 feet above mean sea level.

Graduation is from 2.3 feet below to 68 feet above zero. Highest water was 66 feet, on April 18, 1874; lowest, -3.9 feet, on October 26-30, 1895, and September 27-28, 1896. Danger line is at 35 feet.

DERRY STATION, PENNSYLVANIA.

Derry Station, Pa., is on McGees Run.

The river gage is made of 1½ by 9 inch white pine, and is attached to the cribbing on the south side of Third street. It belongs to the Derry Water Company.

Copper bolt on north end of pier of open bridge is 1,169 feet above mean sea level. Square on base course of east side of Pennsylvania Railroad roundhouse is 1,182 feet above mean sea level.

Graduation extends up to 5 feet.

DES MOINES, IOWA.

Des Moines, Iowa, is on the Des Moines River, 150 miles above its mouth. The river is 300 feet wide at low water. The drainage area above the station is 6,070 square miles.

The river gage is located on the south face of the west pier of the Locust street bridge. It

is made of 2½ by 10 inch timber, is 27.5 feet in length, and is painted white, with markings in copper tacks. It belongs to the Weather Bureau.

Bench mark is a gridiron cut in the stone cap of the pier; it is 25.8 feet above the zero of the gage, and 808.8 feet above mean sea level. The track in the depot of the Chicago, Rock Island and Pacific Railroad is 799 feet above mean sea level and 16 feet above the zero of the gage.

Graduation is from 0.5 foot below to 26.9 feet above zero. Highest water recorded was 20.4 feet, on May 20, 1892. The high water of 1851 is said to have been 2 feet higher. Lowest water, 0.0, date unknown. Danger line is at 19 feet.

DONALDSONVILLE, LOUISIANA.

Donaldsonville, La., is on the Mississippi River, 80 miles above New Orleans, La.

The river gage is maintained and observations are taken by the United States Engineer Corps.

Gage is in two sections. That reading up to 17.7 feet is attached to pile at front of wharf platform at downstream end. The upper section, extending from 17.7 to 35 feet, is attached to wooden piling of crib protection at base of levee in front of the city wharf; it is located at the point where the cribwork strikes downstream and inner corner of the wharf platform.

Bench mark W (Ewens, 1890) is top surface of wrought-iron hinge spike with circular head, driven horizontally into upstream face of uppermost pilaster of the front or river end of the public market house. The spike is 1.4 feet above base of pilaster, and 0.7 foot from front edge. Elevation above zero of gage, 28.7 feet, and above mean sea level, 26.9 feet.

Bench mark A (Ewens, 1896) is top of iron door plate of large doorway at angle of Mississippi street and the Crescent, in the building of B. Leman & Bro. A cross is cut in the stucco above the point used. Elevation above zero of gage, 26.5 feet, and above mean sea level, 24.7 feet.

Graduation is from zero to 35 feet above.

DRIFTWOOD, PENNSYLVANIA.

Driftwood, Pa., is on the Driftwood Branch, 15 miles above Keating, Pa., which is on the West Branch of the Susquehanna River, at the mouth of Driftwood Branch.

The river gage is painted on a bridge pier and belongs to the county. Zero of the gage is 796.4 feet above mean sea level and 15.6 feet below top of rail in Pennsylvania Railroad depot.

Graduation is from 4 to 16 feet above zero. Highest water was 16 feet, date unknown; lowest, 1 foot on July 14-25, 1898, and on other dates previous to 1896. Danger line is at 18 feet.

DUBLIN, GEORGIA.

Dublin, Ga., is on the Oconee River, 60 miles from its mouth, and 40 miles above Mount Vernon, Ga. The drainage area above the station is 4,182 square miles.

The river gage is a 5 by 8 inch timber, attached to pier of railroad bridge, and marked in copper tacks and brass figures. It is owned by the Weather Bureau.

Graduation is from 1 foot below to 30 feet above zero. Highest water was 24.6 feet, on September 5, 1898; lowest, -1.3 feet on July 5, 1898, and October 1-4, 1899. Danger line is at 30 feet.

Station was closed from July 1, 1897, to October 14, 1898, inclusive.

DUBUQUE, IOWA.

Dubuque, Iowa, is on the Mississippi River, 1,699 miles from its mouth, and 90 miles above Leclaire, Iowa. The width of river at low water is 2,700 feet. The drainage area above the station is 77,000 square miles.

The river gage is located on the north side of the main pier of the Illinois Central Railroad bridge, and was erected by the Weather Bureau. It is placed inside the structure on which the draw works. It is made of 2 by 10 inch pine scantling and graduated in copper tacks.

U. S. P. B. M., 279, (M. R. C.) is the center mark of copper bolt leaded horizontally in north-east corner of United States post-office building, 10 inches south of north corner, and 8 feet above stone paving. It is 60.2 feet above zero of the gage, and 643.5 feet above mean sea level.

Graduation is from zero to 19.5 feet above. Highest water was 22.7 feet, on June 23, 1880; lowest, -0.5 foot on November 28, 1895. Danger line is at 15 feet.

DUNCANNON, PENNSYLVANIA.

Duncannon, Pa., is on the Susquehanna River, about 83 miles from its mouth, and about 13 miles above Harrisburg, Pa.

The river gage is located on the south abutment of the Sherman Creek railroad bridge. It is painted white, graduated in feet and half feet, and belongs to the Pennsylvania Railroad Company.

Graduation extends up to 17 feet, but no readings can be made below 5 feet as Sherman Creek has been filled with cinders up to that line. The gage could be placed to better advantage at the east end of the abutment on the north side of the bridge.

EAST BLOOMSBURG PENNSYLVANIA.

East Bloomsburg, Pa., is on the Susquehanna River, 145 miles from its mouth, 30 miles above Selins Grove, Pa., and 20 miles above the mouth of the West Branch.

The river gage is painted on the bridge pier, is graduated in feet and half feet, and belongs to the Pennsylvania Railroad Company.

Graduation is from 3 to 29 feet above zero. Highest water was 40 feet, on June 1, 1889; lowest, 0.0, at various times. Danger line is at 29 feet.

EDISTO, SOUTH CAROLINA.

Edisto, S. C., is on the Edisto River, 75 miles above its mouth.

The river gage is made of hard pine, 2 by 8 inches, painted white, and graduated in brass figures and copper tacks. It is attached to the down-stream end of central row of piles supporting the South Carolina and Georgia Railroad bridge, and belongs to the Weather Bureau. Top of rail on bridge is 16 feet above zero of the gage, and 143 feet above mean sea level.

Graduation is from zero to 9 feet above. Highest water was 8.5 feet, in July, 1899; lowest, 0.0, in November, 1887. Danger line is at 6 feet.

EFFINGHAM, SOUTH CAROLINA.

Effingham, S. C., is on Lynch Creek, 35 miles above its junction with the Pedee River. The distance to Smiths Mills, on the Pedee, is 40 miles. The drainage area above the station is 1,200 square miles.

The river gage is of hard pine, 1 by 5 inches, made in two sections. The lower section (6 feet) is bolted to a large pile in midstream; the upper portion is attached to a tree on shore. Gage is painted white with graduation in black paint, and is owned by the Weather Bureau.

Top of rail on bridge of Northeastern Railroad is 27 feet above zero of gage, and 92 feet above mean sea level.

Graduation is from zero to 20 feet above. Highest water was 17.5 feet, on January 24, 1892; lowest, 0.0, in June, 1884. Danger line is at 12 feet.

ELLWOOD JUNCTION, PENNSYLVANIA.

Ellwood Junction, Pa., is on the Beaver River, 10 miles above its mouth at Beaver Dam, Pa. The river at low water is about 500 feet wide.

The river gage is cut into the west pier of the Beaver and Ellwood bridge. It was constructed by the United States engineers.

Bench mark is cut on pier No. 7, being the west-shore pier of bridge. It is near the fifth joint from the coping on the nose of the pier. Elevation is 10 feet above zero of gage, and 740 feet above mean sea level.

Graduation is from zero to 21 feet above. Highest water was 18 feet, on May 18, 1893; lowest, -3.1 feet, on August 7-20, 1894. Danger line is at 14 feet.

EUFULA, ALABAMA.

Eufaula, Ala., is on the Chattahoochee River, 90 miles above its mouth at Chattahoochee Fla. The drainage area above the station is 6,900 square miles.

The river gage is located on the west side of the brick pier of the public highway bridge at the end of Broad street. It is made of hard wood, and is painted white, with black graduations, which are also cut into the wood. It is the property of the Weather Bureau. Top of rail in front of the Central Railroad of Georgia depot is 138.8 feet above zero of the gage, and 200 feet above mean sea level. Top of masonry of bridge pier is 69.1 feet above zero of the gage, and 130.3 feet above mean sea level.

Graduation extends from zero to 60 feet above. Highest water was 56 feet, on March 28, 1888; lowest, -0.8 foot, on November 4, 1895. Danger line is at 40 feet.

EUGENE, OREGON.

Eugene, Oreg., is on the Willamette River, 50 miles above Albany, Oreg., and 149 miles from the mouth of the river. The width of river at low water is 240 feet. The drainage area above the station is 2,100 square miles.

The river gage is made of wood and is attached to pier of railroad bridge. Graduation is painted. It belongs to the Weather Bureau. Zero of gage is 428 feet above mean sea level.

Graduation is from 3 feet below to 27 feet above zero. Highest water was 22 feet in January, 1889; lowest, -2 feet on November 30-December 1, 1884. Danger line is at 10 feet.

EVANSVILLE, INDIANA.

Evansville, Ind., is on the Ohio River, 137 miles above Paducah, Ky., and 184 miles from the mouth of the river. The width of river from bank to bank is 3,300 feet. The drainage area above the station is 99,700 square miles.

The river gage, built by the Engineer Corps, is on the levee at the foot of Main street. The lower portion consists of hard-wood timbers, 4 by 8 inches, with an iron strap, $\frac{1}{2}$ by 4 inches, fastened to the top face. Graduation is cut into the strap and extends from zero to 46 feet. The gage is extended vertically 3.3 feet higher, on a large electric-light pole near by.

Bench mark is the top face of the iron doorsill of a brick house at the corner of Main and Water streets, on Main street next to Water. It is 48.8 feet above zero of gage and 381.3 feet

above mean sea level. Another bench mark is the top of the rail in the Evansville and Terre Haute Railroad depot, which is 53.5 feet above the zero of the gage and 386 feet above mean sea level.

Graduation is from zero to 49.3 feet above. Highest water was 48.8 feet on February 19, 1884; lowest, -0.3 foot on November 7-8, 1895. Danger line is at 35 feet.

FAIR BLUFF, NORTH CAROLINA.

Fair Bluff, N. C., is on the Lumber River, about 10 miles above its junction with the Little Pedee. The distance to the mouth of the Pedee is 80 miles.

The river gage is made of hard pine, 2 by 10 inches, is painted white, and graduated in brass figures and copper tacks. It is located on the east abutment of the free bridge, and is owned by the Weather Bureau. Top of rail on the Atlantic Coast Line bridge is 14 feet above zero of the gage and 73 feet above mean sea level. Top of rail at Atlantic Coast Line depot is 10 feet above zero of the gage and 69 feet above mean sea level.

Graduation is from zero to 9 feet above. Highest water was 9 feet in March, 1848; lowest, -0.3 foot on October 29-30, 1895. Danger line is at 6 feet.

FAIRMONT, WEST VIRGINIA.

Fairmont, W. Va., is on the Monongahela River, 24 miles above Morgantown, W. Va., and 119 miles from the mouth of the river. The width of river at low water is 390 feet. The drainage area above the station is 2,320 square miles.

The river gage is located on the west bank of the river, below the milldam. It is constructed in three sections, 23, 10, and 6 feet in length, respectively. The two lower sections are attached to the foundation wall of the old mill, the upper section to the Baltimore and Ohio freight office building. The gage is made of oak and has black graduations on a white ground. It was erected by A. R. Menear. Top of rail at depot of the Baltimore and Ohio Railroad is 888 feet above mean sea level and, according to the railroad survey, 48 feet above zero of the gage.

Graduation extends from 1 foot below to 38 feet above zero. Highest water was 37 feet, on July 10, 1888; lowest, -0.8 foot, on September 21-24, 1892. Danger line is at 25 feet.

FALMOUTH, KENTUCKY.

Falmouth, Ky., is on the Licking River, 30 miles above Cincinnati, Ohio, at its mouth. The width of river at low water is 225 feet. The drainage area above the station is 2,900 square miles.

The river gage, which belongs to the Weather Bureau, is an oak plank, 2 by 9 inches, 40 feet long, and fastened to the downstream face of the stone abutment of the bridge. The zero of the gage is the surface of the flat rock upon which is built the eastern abutment of the bridge. It is painted and is graduated in copper tacks.

Bench mark on doorsill of Pendleton County court-house is 561.4 feet above mean sea level and 49.2 feet above zero of the gage.

Graduation is from zero to 40 feet above. Highest water recorded was 27.5 feet, on January 23, 1898; lowest, 0.0, in 1887 and on October 17-20, 1897. A high-water stage of 38 feet is said to have occurred in 1854. Danger line is at 25 feet.

FARRANDSVILLE, PENNSYLVANIA.

Farrandsville, Pa., is on the west branch of the Susquehanna River, about 7 miles above Lockhaven, Pa.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on the bridge pier, and is graduated in feet and half feet.

Graduation is from zero to 29 feet above. Highest water was 29.9 feet on June 1, 1889; lowest, -0.8 foot, on September 5, 1895. Danger line is at 19 feet.

FAYETTEVILLE, NORTH CAROLINA.

Fayetteville, N. C., is on the Cape Fear River, about 100 miles from its mouth. The river is 150 feet wide at low water. The drainage area above the station is 4,493 square miles.

The river gage consists of two parts. The lower portion is a plank, 30 feet long, fastened vertically to the east pier of the county bridge, and is graduated in copper tacks and brass figures; the upper portion is painted upon the pier itself. The gage belongs to the Weather Bureau. The track of the Cape Fear and Yadkin Railroad in front of the depot is approximately 60 feet above zero of gage, and 170 feet above mean sea level.

Graduation is from 5 feet below to 55 feet above zero. Highest water was 58 feet on January 12, 1895; lowest, 0.2 foot, on October 8-9, 1897. Danger line is at 38 feet.

FLORENCE, ALABAMA.

Florence, Ala., is on the Tennessee River, 220 miles from its mouth and 30 miles above Riverton, Ala. The width of river at low water is 2,000 feet. The drainage area above the station is 30,000 square miles.

The gage belongs to the United States Engineer Corps, and was rebuilt in November, 1898. It is attached to the lower side, Florence face, of the wooden crib rest of the drawspan of the Southern Railway bridge. It is made of 2 by 4 white pine timber, secured with wrought-iron spikes, and the graduations are burned into the wood.

Bench mark A (Ewens, 1894) is a cross cut on top of northeast corner of upstream end of first abutment pier from Florence side of the Memphis and Charleston Railroad bridge. Elevation above zero of gage, 34.7 feet; approximate elevation above mean sea level, 431.4 feet.

Graduation is from 2.1 feet below to 32 feet above zero. Highest water was 32.5 feet on March 19, 1897; lowest, -0.8 foot, on October, 24, 1872. Danger line is at 16 feet.

FOLSOM CITY, CALIFORNIA.

Folsom City, Cal., is on the American River, 25 miles above Sacramento, Cal., at its mouth. The drainage area above the station is 1,645 square miles.

The river gage is of timber and is in two sections. The lower section (10 feet) is inclined and is bolted to the upper section, which is vertical, and fastened to old railroad pier on the side of river opposite the city. It is painted white and graduation is in black paint. It belongs to the Weather Bureau. Top of rail at Southern Pacific Railroad depot is 80 feet above zero of gage and 180 feet above mean sea level.

Graduation is from zero to 42 feet above. Highest water was 42 feet in January, 1861; lowest, 0.2 foot, date unknown. Danger line is at 35 feet.

FORT SMITH, ARKANSAS.

Fort Smith, Ark., is on the Arkansas River, 351 miles from its mouth and 95 miles above Dardanelle, Ark. The width of river from bank to bank is 2,270 feet; at low water it is 600 feet wide. The drainage area above the station is 152,100 square miles.

The river gage is attached to stone curbing at downstream end of wharf, foot of Garrison avenue. The curbing is of flagstones, each about 4 feet long, 20 inches wide, and 4 inches thick,

and set in the ground about 18 inches. The gage proper consists of an iron strip, $2\frac{1}{2}$ by $\frac{1}{2}$ inches, and 180 feet in length, is attached to curbing by bolts, and belongs to Weather Bureau.

The graduation from zero to 1 foot is chiseled in the stone curbing; from 1 to 33 feet the markings are cut in the strip, foot marks being grooved across the face of the strip, and tenths notched. Numbers for feet are chiseled in the curbing.

Coast Survey bench, a brass bolt in west wall of the United States jail, is 67.1 feet above zero of the gage, and 445.9 feet above mean sea level. Top of boundary monument between Arkansas and Indian Territory, which stands between the St. Louis and San Francisco and Missouri Pacific Railroad tracks, is 61.4 feet above zero of the gage and 440.2 feet above mean sea level.

Gage was placed in thorough repair on December 1, 1899.

Graduation is from zero to 83 feet above. Highest water was 35 feet on May 7, 1898; lowest, -1 foot, on October 28-November 3, 1893. Danger line is at 22 feet.

FRANKFORT, KENTUCKY.

Frankfort, Ky., is on the Kentucky River, 40 miles from its mouth. The distance to Madison, Ind., on the Ohio, is 50 miles. The width of river at low water is 400 feet. The drainage area above the station is 5,300 square miles.

The river gage is located at the canal lock, 1 mile below the city. It is attached to the side of the canal wall and belongs to the United States Engineer Corps. Top of upper miter sill of Lock No. 4 is the zero of the gage, and is 464.8 feet above mean sea level.

Highest water was 44 feet, in February, 1878; lowest, 0.4 foot, date unknown. Danger line is at 31 feet.

Station was discontinued from June 15, 1893, to September 30, 1898, inclusive.

FREEPORT, PENNSYLVANIA.

Freeport, Pa., is on the Allegheny River, 26 miles above Pittsburg, Pa. The river is 750 feet wide. The drainage area above the station is 9,220 square miles.

The river gage, which was rebuilt in 1899, is located on the County Bridge pier, 380 feet from shore. It is in two sections. The upper one is painted on the dressed surface of the pier, and consists of black markings on a white ground. It extends from 2 to 35 feet above zero. The lower section, from 1 foot below to 2 feet above zero, is a plank spiked to the cribbing of the pier, and graduated with black markings on a white ground. The gage belongs to the Weather Bureau. The top of track on the Pennsylvania Railroad bridge is 31 feet above zero of the gage, and 772 feet above mean sea level.

Graduation is from 1 foot below to 35 feet above zero. Highest water was 32.7 feet on February 18, 1891; lowest, -0.7 foot on September 28, 1881, and September 10, 1886. Danger line is at 20 feet.

FULTON, ARKANSAS.

Fulton, Ark., is on the Red River, 565 miles from its mouth, and 116 miles above Shreveport, La. The width of river at low water is 750 feet. The drainage area above the station is 46,900 square miles.

The river gage, belonging to the Engineer Corps, is on the north pier of the St. Louis, Iron Mountain and Southern Railroad bridge. It is made of cypress, and the graduations are cut in the timber.

Bench mark 2 (Red River Survey) is copper bolt in square stone under ground and iron pipe on top, at the northwest corner of Orleans and Washington streets, in southeast corner of George

Taylor's yard, opposite Heath's Hotel. Elevation of top of iron cap above zero of gage, 35 feet; above mean sea level, 258.5 feet. Elevation of copper bolt is 4.1 feet below that of the iron cap.

Bench mark A (Ewens, 1896) is a square cut on the top of the downstream end of first pier from Fulton side of the St. Louis, Iron Mountain and Southern Railroad bridge; elevation above zero of gage, 40.6 feet; above mean sea level, 264.1 feet.

Graduation is from zero to 35.5 feet above. Highest water was 35.8 feet on July 17, 1876; lowest, 0.1 foot, on September 20-25 and October 12-23, 1896. Danger line is at 28 feet.

GADSDEN, ALABAMA.

Gadsden, Ala., is on the Coosa River, 144 miles from its mouth, and 28 miles above Lock No. 4, Ala. The width of river at low water is 400 feet. The drainage area above the station is 5,680 square miles.

The river gage is constructed in two sections. The lower section is secured to lower side of rock pier of Louisville and Nashville Railroad bridge about 25 feet from shore. The upper section is attached to large oak on west bank. The gage is of wood, painted white, and graduated in black paint. It now belongs to the Weather Bureau.

Bench mark is a mark on a large oak tree in city park, which is the bench mark of the Southern Railway. Elevation is 70.3 feet above zero of gage, and 544 feet above mean sea level.

Graduation is from 2 feet below to 35 feet above zero. Highest water was 36.7 feet on April 6, 1886; lowest, -0.8 foot on October 2-11, 1897, and in September, October, and November, 1899.

GALLAND, IOWA.

Galland (Nashville), Iowa, is on the Mississippi River, 1,472 miles from its mouth, and 9 miles above Keokuk, Iowa.

The river gage belongs to the United States Engineer Corps. It is a duplicate of the Keokuk gage, and is cut in the stone masonry of the pier just above the upper gate of the guard lock of the Des Moines Rapids Canal, on the west side of the pier, about 90 feet from shore. Markings are cut in the stone, and are painted black on a white ground.

U. S. P. B. M. No. 2 is the top of a brass bolt leaded vertically in the top of the coping of the west wall near the southwest tower of the guard lock. It is 11 feet above zero of the gage, and 506.6 feet above mean sea level.

Graduation is from zero to 13 feet above. Highest water was 12 feet on May 16, 1888; lowest, -2.1 feet, on December 5-6, 1898. Danger line is at 8 feet.

GRAFTON, ILLINOIS.

Grafton, Ill., is on the Mississippi River, 1,306 miles from its mouth and 43 miles above St. Louis. The river at average low water is 2,700 feet wide. The drainage area above the station is about 171,000 square miles.

The river gage is made in three sections of 2 by 4 inch oak scantling. The lower section (1 foot below to 16 feet above zero) is attached to a pier about 150 feet below the depot; an iron strap, bearing footmarks, is attached to scantling on upstream side, and graduation is by copper tacks and figures on downstream side. The second section is secured to stone abutment of railroad trestle about 100 feet below the depot, extends from 16 to 25 feet, and is marked in a manner similar to the lower section. The upper section is spiked to the south side of depot, extends from 25 to 38 feet, and is painted, the graduation being in copper tacks and brass figures. It belongs to the Weather Bureau.

U. S. P. B. M. No. 4, Mississippi River Commission, is a copper bolt in the east end of the doorstep of eastern door in Allen's brick building, adjoining the Grafton Flouring Mills. Elevation is 42.1 feet above zero of gage, and 444.8 feet above mean sea level.

Graduation is from 1 foot below to 38 feet above zero. Highest water was 37.8 feet in 1858; lowest, -0.3 foot on December 7-8, 1895. Danger line is at 23 feet.

GREENSBORO, PENNSYLVANIA.

Greensboro, Pa., is on the Monongahela River, 81 miles from its mouth, and 41 miles above Lock No. 4, Pa. The width of river is 600 feet. The drainage area above the station is 4,574 square miles.

The river gage belongs to the Engineer Corps. It is located on the wharf and is made of timber, reinforced with an iron plate. Gage is painted white and graduated in black paint.

The zero of gage is the same as that of gage at Lock No. 7, elevation of which is top of upper breast wall, which lies about 12 inches above miter sill. The zero of lower gage, at Lock No. 8, is at the same level. Zero stage on the gage corresponds to about 7 feet of water in the channel. Zero of gage is 768 feet above mean sea level.

Graduation is from zero to 23.5 feet above. Highest water was 39.0 feet on July 10, 1888; lowest, 4.8 feet on October 27-28, 30-31, 1897. Danger line is at 18 feet.

GREENVILLE, MISSISSIPPI.

Greenville, Miss., is on the Mississippi River, 595 miles from its mouth, and 121 miles above Vicksburg, Miss. The width of river at low water is 2,586 feet. The drainage area above the station is 1,125,000 square miles.

The river gage was erected by the Engineer Corps and is located at the end of Main street; it is made of six sections of 2 by 5 inch plank, nailed to heavy piling driven into the ground. Graduation is burned in.

P. B. M. 1 (Coast and Geodetic Survey) is on the iron sill of window, in north side near northwest corner of brick building, in 1893 called the city prison. It stands on the south side of Main street, about 100 feet east of Locust street, now new levee. Bench mark is Δ cut in the iron window sill. Elevation above zero of gage 43.2 feet and above mean sea level 130 feet.

B. M. A., 1892, is on doorsill to rear or west entrance to First National Bank buildings on southwest corner of Main and Walnut streets. Bench mark is cut in sill, and is 43.5 feet above zero of gage, and 130.8 feet above mean sea level.

Graduation is from 4 feet below to 46 feet above zero. Highest water was 46.7 feet on March 29, 1897; lowest, -2.5 feet on November 10, 1895. Danger line is at 42 feet.

HANNIBAL, MISSOURI.

Hannibal, Mo., is on the Mississippi River, 1,402 miles from its mouth, and 29 miles above Louisiana, Mo. The width of river at low water is 1,530 feet. The drainage area above the station is 143,700 square miles.

The river gage is located on the southwest corner of pivot pier of the Wabash Railroad bridge, 415 feet from the Missouri end. It is about $1\frac{1}{4}$ miles north of Hannibal post-office. The graduation is in feet and inches, and is cut into the stone of the pier. The zero is set at low water of 1864. Gage is owned by the Wabash Railroad Company.

U. S. P. B. M. No. 16, Mississippi River Commission, is a copper bolt leaded horizontally into face of rock at east entrance of tunnel at Missouri end of bridge. Bolt is in a rock facing east on

south side of tunnel, 7 feet from entrance and 4 feet above road level. Elevation is 39.8 feet above zero of gage, and 488.1 feet above mean sea level.

Bench mark, high water of 1888 (Mackenzie), is a line cut on the pivot pier of the Wabash Railroad bridge. It is 21.7 feet above zero of the gage, and 470 feet above mean sea level.

Graduation is from zero to 22 feet above. Highest water was 22.0 feet on June 7, 1851; lowest, -1.9 feet on December 4, 1893. Danger line is at 13 feet, at which point Bay Island begins to become submerged. On the Illinois side of the river the Sny Levee protects the bottom lands up to a 17-foot stage.

HARPERS FERRY, WEST VIRGINIA.

Harpers Ferry, W. Va., is on the Potomac River at the mouth of the Shenandoah, 60 miles above Washington, D. C., and 170 miles from the mouth of the Potomac. The drainage area above the station is 9,863 square miles.

The river gage is on the west face and north end of second abutment of the Baltimore and Ohio Railroad bridge, from the West Virginia side of the river. It is made of a strip of Portland cement, 15 inches in width, plastered on the face of the pier, extending to 32 feet, and continued on the iron upright of the bridge to 36 feet. It is painted black, and the feet and tenths are marked in white. The top surface of the 6 by 6 inch square capstone of the abutment corresponds to the 32-foot mark on the gage. It belongs to the Weather Bureau. Top of rail on bridge, directly over gage, is 41.5 feet above zero of gage, and 277 feet above mean sea level.

Graduation is from zero to 36 feet above. Highest water was 34 feet on June 1, 1889; lowest, -2.0 feet in October, 1889. Danger line is at 16 feet.

HARRISBURG, PENNSYLVANIA.

Harrisburg, Pa., is on the Susquehanna River, 70 miles from its mouth. The width of the river is 4,620 feet. The drainage area above the station is 24,030 square miles.

The river gage, which belongs to the municipality of Harrisburg, is a well gage which is connected with the river by large water mains. From 6 feet below to 12.5 feet above zero the height of water is indicated on an iron column in the engine room of the city waterworks; from 12.5 to 30 feet on the outside of the water house. Graduations are in feet and half feet, painted white on a black ground.

Bench mark on stone steps of post-office building is 20.1 feet above top of rail in Union Station, which latter is 317 feet above mean sea level, and 16.9 feet above the zero of the gage.

Graduation is from zero to 30 feet above. Highest water was 27.1 feet on June 1, 1889; lowest, 0.1 foot, from October 27 to 31, 1895. Danger line is at 17 feet.

HELENA, ARKANSAS.

Helena, Ark., is on the Mississippi River, 767 miles from its mouth, and 132 miles above Arkansas City, Ark. The river is 2,800 feet wide. The drainage area above the station is 935,700 square miles.

The river gage, belonging to the Engineer Corps, is built of 2 by 7 inch cypress, and is attached to the downstream piling, supporting elevator slide, at foot of Arkansas street. The graduation is burned in the wood.

U. S. P. B. M. "Helena, II," is center of hole in end of copper bolt, one centimeter in diameter, leaded into south wall of brick building on northwest corner of Cherry and Rightor streets (Tinny Building), 7.1 feet west of southeast corner of building and 3.2 feet above sidewalk. It is 50.1 feet above zero of gage, and 190.8 feet above mean sea level.

Graduation is from 4 feet below to 52 feet above zero. Highest water was 51.8 feet on April 4, 1897; lowest, -3.0 feet, on November 8, 9, 1895. Danger line is at 42 feet.

HERMANN, MISSOURI.

Hermann, Mo., is on the Missouri River, 103 miles from its mouth. The width of river at low water is 3,960 feet. The drainage area above the station is 527,500 square miles.

A new river gage has been erected by the Weather Bureau, and its use commenced on January 1, 1898. It is constructed of 6 by 4-inch oak timber, laid along the bank and attached to oak piles. The top and upstream sides are bound with 2 by one-fourth inch wrought iron. Gage is painted white and marked with brass figures and copper tacks. It is located on the south bank of the Missouri River, about 1,450 feet west of the Missouri Pacific Railroad depot, and 307 feet west of P. B. M. No. 72.

P. B. M. No. 72 (old B. M. 59) is a horizontal furrow in a copper bolt leaded into the natural ledge at a point of the bluff at the upper end of Hermann, 1,148 feet west of the depot. It is 10 feet from the center of the track, and 1 foot above grade. It is 35.4 feet above the zero of the gage, and 516.3 feet above mean sea level.

Graduation is from zero to 31.9 feet above. Highest water was 35.6 feet in June, 1844; lowest, 0.0, on December 21, 22, 1878. Danger line is at 24 feet.

The zero of the new gage is set at the corrected low water reading of December 21 and 22, 1878, being exactly 3 feet lower than the old zero. In the stages given in the paragraph immediately preceding, 3 feet has been added that the data may be referred to the zero now in use.

Previous to January 1, 1898, a correction of -0.24 foot for each foot should be applied to all readings below 3 feet on account of incorrect gage graduation, and from April 1, 1892, to December 31, 1897, inclusive, a correction of -0.14 foot for each foot above 13 should be applied to all readings above 13 feet for the same reason. These corrections are necessary in addition to the 3 feet which must be added in order to reduce to the present gage zero.

HERRS ISLAND DAM, PENNSYLVANIA.

Herrs Island Dam, Pennsylvania, is at Twenty-second street, Pittsburg, Pa., on the Allegheny River.

The river gage is attached to river wall of lock at the dam. It consists of a wooden strip 2 by 12 feet, and belongs to the United States Engineer Corps. The sill of the dam is the zero of the gage, and the top of the wall is 18 feet above.

Graduation extends from zero to 18 feet on lock wall, and is extended higher on the bank back of the lock. Highest water since 1897 was 21.9 feet on March 6, 1899; lowest, 3 feet on February 2, 1899.

HINTON, WEST VIRGINIA.

Hinton, W. Va., is on the New River, 95 miles above Charleston, W. Va., at its mouth. The river is about 600 feet wide. The drainage area above the station is 5,600 square miles.

The river gage is located at the foot of Third avenue, just below what is known as the lower ferry. The lower 10 feet is made of 2 by 6 inch poplar, and is attached to an oak crib. The upper 10 feet is a heavy upright 14-inch post on the bank. The gage is painted white with black graduations. It belongs to the United States Engineer Corps.

Base of rail in front of the Chesapeake and Ohio Railroad depot is 33.5 feet above zero of the gage and 1,372 feet above mean sea level.

Graduation is from zero to 20 feet above. Highest water was 23 feet on September 13, 1878; lowest, 0.5 foot, date unknown. Danger line is at 14 feet.

HUNTINGDON, PENNSYLVANIA.

Huntingdon, Pa., is on the Juniata River, 80 miles from its mouth and 50 miles above Mifflin, Pa. The river is 300 feet wide at low water. The drainage area above the station is 1,320 square miles.

The river gage is painted on the bridge pier, and is graduated in feet and half feet. It belongs to the Pennsylvania Railroad Company. Top of rail at depot of Pennsylvania Railroad Company is 23.6 feet above zero of gage and 621 feet above mean sea level. Copper bolt in the head of race arch, south end, is 27.6 feet above zero of gage and 625 feet above mean sea level.

Graduation is from zero to 25 feet above. Highest water was 25 feet on June 1, 1889; lowest, -0.6 foot, date unknown. Danger line is at 24 feet.

HUNTINGTON, WEST VIRGINIA.

Huntington, W. Va., is on the Ohio River, 9 miles above Catlettsburg, Ky., and 660 miles from the mouth of the river. The drainage area above the station is about 56,000 square miles.

The station was opened on December 1, 1899, and readings are made from a new gage erected by the Weather Bureau. This gage is located next to and west of the heavy spar stones bordering the east end of the grade at the foot of Tenth street. It is flush with the levee and securely bedded.

The gage consists of a freestone walk, 18 by 8 inches, extending from low water to the top of the grade, about 371 feet, and an upright timber addition, 16 feet long, at the top of the grade. Graduations on the lower portion, including figures for feet and half feet, are cut in the stone. The upright portion is made of 12 by 12 oak, 16 feet long, 6 feet being under ground, and has black painted markings on a white ground.

Bench mark A on stone flagging of wharf, Marietta-Big Miami survey of Ohio River, 1899, is 20.3 feet above zero of the gage and 511.7 feet above mean sea level.

Bench mark B is cut on the foundation wall of the Schon, Blake & Stevenson Building at the foot of Tenth street. It was established by the city engineer of Huntington, and is 56.5 feet above zero of the gage, or 547.9 feet above mean sea level. Top of rail at Chesapeake and Ohio Railroad depot is 75.6 feet above zero of the gage and 567 feet above mean sea level. The zero of the gage refers to the bottom of the channel at Guyan Shoals, about 3 miles above the gage.

Graduation extends from zero to 61.1 feet above. Danger line is at 50 feet.

IRWIN, PENNSYLVANIA.

Irwin, Pa., is on Brush Run.

The gage is located on the abutment of the Pennsylvania Railroad bridge and fastened to the masonry by pins. It consists of a pine plank, with marks cut in, and is painted white with black figures. It belongs to the Irwin Water Company. Mark No. "76 a," Pennsylvania Railroad Company, is 865.8 feet above mean sea level.

Graduation extends from zero to 16 feet above. Highest water since 1896 was 4.5 feet on March 23, 1898; lowest, 0.1 foot, at various times since 1896.

JOHNSONVILLE, TENNESSEE.

Johnsonville, Tenn., is on the Tennessee River, 94 miles from its mouth. The river is 1,320 feet wide at low water; at the highest water it is 10 miles wide. The drainage area above the station is 36,700 square miles.

The river gage, which belongs to the Weather Bureau, is located on the Nashville, Chattanooga and St. Louis Railroad elevator. The lower section (-0.1 to 12 feet) is made of hickory

tamber. The remainder is on the inside post of the elevator, and is graduated with copper tacks and wire.

Bench mark is top of coping of west abutment of railroad bridge. It is 44 feet above zero of the gage and 366 feet above mean sea level. Top of rail on bridge is 46 feet above zero of the gage and 368 feet above mean sea level.

Graduation is from 0.1 foot below to 48 feet above zero. Highest water was 48 feet in 1882, and on March 24, 1897; lowest, -0.3 foot, on October 6-20, 1897. Danger line is at 21 feet.

JOHNSTOWN, PENNSYLVANIA.

Johnstown, Pa., is on Stony Creek near its junction with the Conemaugh River and 64 miles from its mouth. The river is 175 feet wide. The drainage area above the station is 450 square miles. The Conemaugh River above the mouth of Stony Creek drains an area of 200 square miles.

The river gage is located on a stone wall at the fording immediately east of the Franklin street bridge. It is of oak, painted, with graduation in paint, and was erected by Mr. J. J. Miller. The top line of the foundation of the pier of the Pennsylvania Railroad viaduct which crosses the Conemaugh River below the mouth of Stony Creek, is 31.2 feet above zero of the gage, and 1,179 feet above mean sea level. Copper bolt in west end of north parapet of bridge is 32.2 feet above zero of the gage, and 1,180 feet above mean sea level.

Graduation is from zero to 22 feet above. Highest water was 21 feet on May 31, 1889; lowest, 0.2 foot, on August 21-28, 1893. Danger line is at 7 feet. The stage of 21 feet on May 31, 1889, occurred at 3 p. m., before the breaking of the South Fork Dam. After the dam broke the water reached 32 to 35 feet.

KANSAS CITY, MISSOURI.

Kansas City, Mo., is on the Missouri River, 388 miles from its mouth, and 189 miles above Boonville, Mo. The river is 2,100 feet wide at low water. The drainage area above the station is 491,800 square miles.

The river gage is of the standard wire cable pattern of the Missouri River Commission, to which it belongs, and is built on the Hannibal and St. Joseph Railroad bridge. It is graduated from 302 to 331 feet, and refers to the St. Louis directrix, which is 303.3 feet below the zero of gage. Stages are therefore obtained by subtracting 303.3 from the observed readings on the gage.

P. B. M. 230 is an iron cap over copper bolt in a stone about 50 feet east of the Hannibal and St. Joseph Railroad bridge. Top of cap is 33.6 feet above zero of gage, and 749.6 feet above mean sea level.

City datum is 5.9 feet above zero of gage and 721.9 feet above mean sea level.

Graduation is from 1.4 feet below to 27.6 feet above zero. Highest water was 37 feet on June 20, 1844; lowest, -0.1 foot on January 6, 1874. Danger line is at 21 feet.

KARTHAUS, PENNSYLVANIA.

Karthaus, Pa., is on the West Branch of the Susquehanna River, 123 miles from its junction with the Susquehanna, and 20 miles above Keating, Pa.

The river gage is painted on railroad bridge pier and graduated in feet and half feet. It belongs to railroad company. Zero of gage is 833.9 feet above mean sea level.

Graduation is from 3 to 19 feet above zero. Highest water was 22 feet on May 30, 1889; lowest, -0.1 foot on August 1-11, 1895. Danger line is at 10 feet.

KEATING, PENNSYLVANIA.

Keating, Pa., is on the West Branch of the Susquehanna River, 103 miles from its junction with the Susquehanna and 15 miles above Renova, Pa.

The river gage, belonging to the railroad company, is painted on bridge pier and graduated to feet and half feet. Zero of gage is 688.8 feet above mean sea level, and 25.2 below top of track at depot of Pennsylvania Railroad.

Graduation is from 3 to 37 feet above zero. Highest water was 33 feet on May 31, 1889; lowest, 0.2 foot on October 2-5, 1898. Danger line is at 32 feet.

KEOKUK, IOWA.

Keokuk, Iowa, is on the Mississippi River, 1,453 miles from its mouth, and 5 miles above Warsaw, Ill. The width of the river is 2,200 feet. The drainage area above the station is 126,200 square miles.

The river gage, belonging to the Engineer Corps, is cut in the face of a stone pier at the lower end of the Des Moines Rapids Canal, about 70 yards from shore. The figures are cut in the rock, while the intermediate markings are in black paint.

U. S. P. B. M. No. 1 is a copper bolt in coping on shore side of lower lock of Des Moines Rapids Canal. It is 15.6 feet above the zero of the gage, and 492.3 feet above mean sea level.

U. S. P. B. M. No. 2 is a copper bolt leaded horizontally in the south face of Iowa shore abutment of the railroad bridge at Keokuk; it is 0.7 foot above bench of abutment in tenth stone from west end. Elevation is 16.3 feet above zero of gage and 493 feet above mean sea level. City directrix is 5.2 feet above zero of gage, and 481.9 feet above mean sea level. Zero of gage is low-water mark of 1864.

Graduation is from 1 foot below to 21 feet above zero. Highest water was 21 feet on June 6, 1851; lowest, 2 feet, on December 6, 1897, and December 4, 1898. Danger line is at 15 feet.

KINGSTON, TENNESSEE.

Kingston, Tenn., is on the Clinch River at its junction with the Tennessee, and 534 miles from the mouth of the latter. The distance to Rockwood, Tenn., on the Tennessee River, is 15 miles. The river is 450 feet wide. The drainage area above the station is 16,200 square miles.

The river gage (new), belonging to the Weather Bureau, is made of dressed, sound heart pine, 4 by 8 inches. It is attached to the south or downstream side of the pier of the Roane County bridge at the east end of the bridge. It is painted white, with foot and tenth marks in black. Markings proper are in brass figures and copper tacks.

Bench mark is on the root of a sycamore tree to which the old gage was attached. It is 4.8 feet above zero of gage and 717.6 feet above mean sea level. Another bench mark is on a large maple tree in W. B. Rose's yard, and is 30.4 feet above zero of the gage and 743.2 feet above mean sea level. There is also an iron pin in the stone pier of the bridge at the 5.5-foot mark on the gage, or 718.3 feet above mean sea level.

Graduation is from 1.5 feet below to 48 feet above zero. Highest water was 42.5 feet in 1867; lowest, -0.9 foot, on December 5-7, 1894. Danger line is at 25 feet.

KINGSTREE, SOUTH CAROLINA.

Kingstree, S. C., is on the Black River about 60 miles above its junction with the Pedee at Georgetown, near the head of Winyaw Bay.

The river gage, belonging to the Weather Bureau, is made of 2 by 10 inch hard pine, painted white, and graduated in copper tacks and brass figures. It is attached to the down-

stream side of the central wooden pier of the Kingstree free bridge. The top of rail in the Northeastern Railroad depot is 40 feet above zero of gage and 77 feet above mean sea level.

Graduation is from zero to 15 feet above. Highest water was 14.5 feet on September 11, 1893; lowest, -1.2 feet on May 22-23, 1896. Danger line is at 12 feet.

KNOXVILLE, TENNESSEE.

Knoxville, Tenn., is on the Tennessee River, 614 miles from its mouth, and 56 miles above Loudon, Tenn. The drainage area above the station is 8,300 square miles.

On account of the building of a new bridge over the river the old gage was abandoned, and from January 16 to October 31, inclusive, 1899, readings were made from a temporary gage which was made of wood and anchored to the second pier of the north end of the Maryville Railroad bridge. The zero of the temporary gage was 0.6 foot lower than that of the old one.

A new and permanent gage was erected for the Weather Bureau by the United States Engineer Corps in October, 1899, and readings from it were commenced on November 1, 1899. It is in two sections; the first, or angle section is built of 2 by 4 pine timber, with painted markings; the second section is a vertical brass scale of the standard pattern, and the figures for even feet are painted thereon. The angle section is attached to an 8 by 8 oak sill, well bolted to piles of the same material, and surrounded by crushed rock. It is located on the southwest bank of the river, about 50 feet from the south end of the Knoxville and Augusta Railroad bridge over the West Knoxville Bayou where it empties into the Tennessee River. The vertical section is attached to the sixth pier from the south end of the bridge and is about 50 feet from the bank of the river. It is attached to the southwest side of the pier, which is built of 12 by 12 timber.

Bench mark is a cross cut in a stone on the east corner of the base of the right (southwest) bank pier of the Maryville and North Georgia Railroad bridge over the Tennessee River at Knoxville. It is 2.4 feet above zero of the gage, and 806.7 feet above mean sea level. Bronze tablet in northeast corner of Clinch-street entrance to custom-house is 128.7 feet above zero of the gage and 933 feet above mean sea level.

Graduation of angle section is from 2 feet below to 12 feet above zero, and that of the vertical section from 12 to 36.5 feet above zero. Highest water was 39 feet in March, 1875; lowest, -1.5 feet on December 1, 1895. Danger line is at 29 feet.

The zero of the new gage is 2.3 feet below that of the old one, but owing to check dams and shoals there is a decided fall in the river between the sites of the two gages, and both gages read the same notwithstanding their difference in elevation. No corrections are therefore necessary for any of the readings except during the period from January 16 to October 31, 1899, while the temporary gage was in use, when a correction of -0.6 foot should be applied to all readings in order to reduce them to the present gage zero.

LA CROSSE, WISCONSIN.

La Crosse, Wis., is on the Mississippi River, 1,819 miles from its mouth, and 60 miles above North McGregor, Iowa. The width of river at low water is 975 feet. The drainage area above the station is 61,340 square miles.

The river gage, erected by the Engineer Corps, is cut in the stone of the east pier of the La Crosse wagon bridge, and the markings are painted black. The zero of the present gage is 1.2 feet higher than the zero of the old one in use prior to October 1, 1891, and corresponds to the low water of 1863.

P. B. M. on the stone doorsill of the United States Government building is 36.3 feet above zero of the gage and 678.5 feet above mean sea level.

U. S. P. B. M. No. 193 is in the west face of land pier to highway bridge across the Mississippi River, 5 feet from its north end and 3.5 feet above ground, being the center of a copper bolt leaded horizontally. Elevation above zero of gage 0.7 foot, and above mean sea level 642.9 feet.

Graduation is from zero to 16 feet above. Highest water was 16.3 feet on June 19, 1880; lowest, -1.2 feet, on August 26, 1877. Danger line is at 12 feet.

LECLAIRE, IOWA.

Leclaire, Iowa, is on the Mississippi River, 1,609 miles from its mouth, and 16 miles above Davenport, Iowa. The river is 1,350 feet wide at low water. The drainage area above the station is 91,700 square miles.

The river gage was built by the Pilot Association in 1865. Its zero is the low water of 1864.

B. M. 1 (Colonel King) is center of circle cut on northeast corner of ringbolt stone, 39.4 feet east of warehouse in Leclaire. Elevation is 7.7 feet above zero of the gage, and 569.5 feet above mean sea level.

Bench mark $1\frac{1}{4}$, is center of copper bolt leaded horizontally in east face of stone porch, 1 foot above ground, near northeast corner of Louis Schworm's house on Dodge street, and southwest corner of alley between Main street and Wisconsin avenue. Bolt is 8 inches from northeast corner of porch, and 2.6 feet from top of porch. Elevation is 37.8 feet above zero of the gage, and 599.6 feet above mean sea level.

Highest water was 14.5 on June 25, 1880; lowest, -1.2 feet, on January 4, 1890. Danger line is at 10 feet.

LEWISTON, IDAHO.

Lewiston, Idaho, is on the Snake River.

The river gage is attached to the Oregon Railway and Navigation Company's dock. It is made of pine, is fastened to a pile, and has black graduations on a white ground. It was thoroughly repaired in 1899.

Bench mark is base stone of Masonic Temple at Lewiston. It is 750 feet above mean sea level, and about 30 feet above zero of gage.

Graduation is from 2 to 28 feet above zero. Highest water was 26.6 feet on June 6, 1894; lowest, 0.0, on January 10, 1882. Danger line is at 24 feet.

LITTLE ROCK, ARKANSAS.

Little Rock, Ark., is on the Arkansas River, 176 miles from its mouth. The river is 2,400 feet wide. The drainage area above the station is 157,000 square miles.

A new brass river gage was erected by the Weather Bureau in November, 1897. It is attached to the south side of Pier No. 1 of the Little Rock free bridge, and, owing to offsets in the base of the pier, is divided into four sections. Foot marks are painted in white. The zero of the new gage is 0.1 foot higher than that of the old one.

Bench mark, free bridge, is top of northwest corner of coping stone of bank pier just north of railroad track. "U. S." and "+" cut in the stone. It is 35.6 feet above zero of the gage, and 257.2 feet above mean sea level.

Bench mark, A (United States Coast and Geodetic Survey), is center of cross cut in granite substructure of the east face of the United States post-office building. It is beneath the water-table course of masonry, and its center is about 1.1 feet north, and about 0.5 foot above the upper corner of the north line of the basement window nearest to Second street. It is 75.9 feet above zero of the gage, and 297.5 feet above mean sea level.

Bench mark, curbstone at southwest corner of Main and Markham streets, is 64.9 feet above zero of gage, and 286.5 feet above mean sea level.

Graduation is from zero to 29.7 feet above. Highest water was 32.6 feet in May, 1844; a stage of 34.6 feet is said to have occurred in 1833; lowest water was 0.6 foot on September 30, and from October 12 to 22, 1879. These stages are reduced to zero of new gage. Danger line is at 23 feet.

LOCKHAVEN, PENNSYLVANIA.

Lockhaven, Pa., is on the west branch of the Susquehanna River, 63 miles from its mouth, and 20 miles above Nisbet, Pa. The width of river is 1,125 feet. The drainage area above the station is 3,740 square miles.

The river gage is in two parts. The lower portion is painted on the side wall of the canal lock; the upper is on the highway bridge. It is graduated in quarter feet, and was erected by private parties. Top of rail at Beech Creek Railroad depot is 23.3 feet above zero of the gage, and 579 feet above mean sea level.

Graduation is from zero to ten feet above. Highest water was 18 feet on June 1, 1889; lowest, -2.8 feet, on October 28, 1892. Danger line is at 12 feet.

LOCK NO. 4 (LINCOLN), ALABAMA.

Lock No. 4, Ala., is on the Coosa River, 110 miles from its mouth, and 50 miles above Wilsonville, Ala.

The river gage, belonging to the United States Engineer Corps, is in two sections. It is made of 2 by 8 pine timber, with black markings on a white ground. The first section is attached to the lower end of Lock No. 4 cofferdam; the second to a sycamore tree about 100 feet below the first section.

Bench mark is a brass point in a stone post about 1,000 feet upstream from first section of gage. It is 33.2 feet above zero of the gage, and 510.5 feet above mean sea level. These figures are taken from the levels of a railroad survey in 1885, which crossed the Coosa River at Lock No. 1, Ala.

Graduation is from zero to 20 feet above. Highest water was 20.2 feet on March 17, 1899; lowest, -0.4 foot, on October 5, 1894. Danger line is at 17 feet.

LOCK NO. 4, PENNSYLVANIA.

Lock No. 4, Pa., is on the Monongahela River, 40 miles above its mouth, at Pittsburg, Pa. The width of river is 750 feet. The drainage area above the station is 5,430 square miles.

The river gage was built by the Monongahela Navigation Company. It is located on the middle wall at the lower end of large lock, the graduation being cut in the stone.

Bench mark, the bottom of lower end of large lock, is 1 foot below zero of the gage, and 718 feet above mean sea level.

Highest water was 42 feet on July 11, 1888; lowest, 3.2 feet, on November 21, 1887. Danger line is at 28 feet.

At a zero stage there is 1 foot of water in the channel.

LOUDON, TENNESSEE.

Loudon, Tenn., is on the Tennessee River, 558 miles from its mouth, and 24 miles above Kingston, Tenn. The river is 1,500 feet wide. The drainage area above the station is 11,500 square miles.

The river gage is on the west bank of the river, directly under the Southern Railway bridge. It is in two sections. That from zero to the 44-foot mark is inclined, being secured to the rocky soil by iron braces and anchor rods; the vertical section, from 44 to 55 feet, is bolted to the west abutment of the Southern Railway bridge. The gage is built of yellow pine, 6 by 8, dressed and painted. On top of the main gage is a cap of 2 by 8 yellow pine, dressed and painted, except the first 13 feet, which is of heart pine. This cap is spiked and bolted to the main gage, and on it are the markings, which are in brass figures and copper tacks. The gage belongs to the Weather Bureau.

Bench mark is a cross cut in the top surface of the upper course of stone on abutment just over the gage. It is 75.4 feet above the zero of the gage, and 4.6 feet below the base of the rail on the bridge.

Graduation is from zero to 55 feet above. Highest water was 47 feet in March, 1867; lowest, -1 foot, on December 11 and 12, 1895. Danger line is at 25 feet.

LOUISA, KENTUCKY.

Louisa, Ky., is on the Big Sandy River, 26 miles above Catlettsburg, Ky., at its mouth. The river is 218 feet wide at low water. The drainage area above the station is 3,630 square miles.

The river gage is of poplar wood, painted, and nailed to a lock wall. It belongs to the United States Engineer Corps.

Bench mark, the top of the lock, is 28.3 feet above zero of the gage, 41.2 feet below track of Chatteroi Railroad at a point opposite the center of the station house, and 541.7 feet above mean sea level.

Graduation is from zero to 27 feet above. Highest water was 50 feet in July, 1875; lowest, 1 foot, in November, 1887. Danger line is at 20 feet.

Station was discontinued on June 30, 1897.

LOUISIANA, MISSOURI.

Louisiana, Mo., is on the Mississippi River, 1,373 miles above its mouth, and 67 miles above Grafton, Ill. The river at low water is 3,300 feet wide. The drainage area above the station is 146,700 square miles.

The river gage is cut on the draw pier of the Chicago and Alton Railroad bridge, and is owned by the railroad company.

U. S. P. B. M. No. 24, a copper bolt set vertically in top surface of top stone on the north-east corner of the west abutment of the railroad bridge, is 30.4 feet above zero of the gauge and 466.6 feet above mean sea level.

High-water mark of 1888 on the Louisiana bridge is a mark cut in the stone on the south-west corner of the second pier from the Missouri shore; figures, '88, are cut by the mark. Elevation is 18 feet above zero of the gage, and 454.2 feet above mean sea level.

Highest water was 21.9 feet in June, 1851; lowest, -1.8 feet, date unknown. Danger line is at 12 feet.

The station was abandoned by the Weather Bureau in February, 1897.

LOUISVILLE, KENTUCKY.

Louisville, Ky., is on the Ohio River, 367 miles from its mouth, and 183 miles above Evansville, Ind. The river is 3,000 feet wide at low water. The drainage area above the station is 84,600 square miles.

The river gage is on the levee at the foot of Fourth street. The lower portion, from zero to 26 feet, is made of granite flags 4.5 feet wide and from 4 to 8 feet in length, embedded in the levee, with the top surfaces flush with the levee. Down the center of the flagging an iron strip, 5 inches wide, is fitted and marked in feet and inches from zero to 26 feet. From the 26-foot mark the gage is continued by painted lines and figures on the iron pillar of the Shore Line Railroad trestle up to 47.7 feet. The stonework is owned by the city of Louisville; the iron strip by the Weather Bureau. In reports of river stages 2.2 feet are added to make the stage correspond with depth of water in the canal and with the readings of engineer gage in the canal.

Bench mark on northeast corner of Indiana abutment of Louisville railroad bridge is 76.7 feet above zero of the gage, and 481 feet above mean sea level. Another bench mark on top surface of foundation stone on which the railroad trestle rests is 26.2 feet above zero of the gage, and 430.5 feet above mean sea level. The northwest corner step at entrance to depot of Jeffersonville, Madison and Indianapolis Railroad is 52.2 feet above zero of the gage, and 456.5 feet above mean sea level. The gage zero corresponds to bottom of chute at the falls. At zero stage there are 2.2 feet of water in the canal.

Graduation is from zero to 47.7 feet above. Highest water was 46.7 feet on February 15, 1884; lowest, 1.7 feet on November 14-16, 1875, and September 10-14, 18-22, 1881. Danger line is at 28 feet.

LOWER MUSCLE SHOALS, ALABAMA.

Lower Muscle Shoals (lock No. 9), Ala., is on the Tennessee River, 226 miles from the mouth of the river, and 6 miles above Florence, Ala.

The river gage is in two sections. The first section is on the wing wall, extending south from southwest abutment of lock No. 9; it is made of 5½ by seven-eighth inch timber, and markings consist of thin strips of wood which are fastened to the gage. The gage is painted white, the markings black, and its length is 14 feet. The second section is fastened to the bluff north of the northeast abutment of lock No. 9; it is made of 5½ by 1 inch timber and is bound on the edges with five-eighths inch half round iron rods; the markings were made by cutting into the wood, the foot marks extending across the gage, and being also indicated by roman numerals cut in the wood. The length of this section is 5.4 feet. The gage belongs to the United States Engineer Corps.

P. B. M. 19, is at lock No. 9, Muscle Shoals Canal, on river side of lock, at west heelpost, between the "A" straps, 7 inches from the iron shoe, being a copper bolt leaded vertically; it is 13.8 feet above zero of the gage, and 432.2 feet above mean sea level.

Graduation of first section is from zero to 14 feet; of second section, from 14 to 19.4 feet. Highest water since 1895 was 17.7 feet on March 19, 1897; lowest, 0.1 foot on October 9, 1897.

LYNCHBURG, VIRGINIA.

Lynchburg, Va., is on the James River, 257 miles from its mouth, and 90 miles above Columbia, Va. The width of river at low water is about 900 feet. The drainage area above the station is 3,700 square miles.

The river gage is located on the first pier of the Amherst bridge at foot of Ninth street, on side facing Lynchburg, about 100 feet from shore. It is made of 2 by 12 inch white-oak timber, painted white, is graduated with brass figures and copper tacks, and belongs to the Weather Bureau.

Bench mark is a bolt with head about 1 inch square, driven into the pier, to which the gage is attached, and just back of its 28.6 foot mark. It is on the southwest side of the pier, about 1 foot below its top. It is exactly level with the top of rail of the Norfolk and Western Railroad

track at the Ninth street crossing. The track at this place is 28.6 feet above zero of gage, and 523.3 feet above mean sea level.

Graduation is from 1 foot below to 32 feet above zero. Highest water was 29 feet on September 30, 1870; lowest, -0.3 foot, on September 12-15, 1895. Danger line is at 18 feet.

MACON, GEORGIA.

Macon, Ga., is on the Ocmulgee River, 125 miles above its confluence with the Oconee. The width of river at low water is about 210 feet. The drainage area above the station is 2,425 square miles.

The river gage is constructed of heart pine, 5 by 10 inches, and is attached to the south side of the west shore pier of the Georgia Central Railroad bridge. Markings are in brass figures and copper tacks. The pier is slanting, the gage standing out from it 2.5 feet at the top, and being held in position by 1½-inch bolts. Zero of gage is set 1 foot below low water of October 19, 1892. Ownership of gage is uncertain.

Bench mark is an "x," cut in brick pier of Highway Bridge, 900 feet above the Georgia Central Railroad bridge. It is 300.6 feet above mean sea level and 23.5 feet above zero of gage.

Aluminum plate set in stone of foundation of United States Government building, in southwest front, is 56.9 feet above zero of gage, and 334 feet above mean sea level.

Graduation is from 3 feet below to 27 feet above zero. Highest water was 26.9 feet, in August, 1887; lowest, -1.0 foot, on June 12 and 13, 1898. Danger line is at 20 feet.

Station was discontinued on June 30, 1897, and observations resumed on June 1, 1899, after a regular Weather Bureau station had been opened.

MADISON, INDIANA.

Madison, Ind., is on the Ohio River, 413 miles above its mouth, and 46 miles above Louisville, Ky. The width of river at low water is 1,800 feet. The drainage area above the station is 84,000 square miles.

The river gage, which belongs to the Weather Bureau, is located at the east end of the public landing, foot of Mulberry street. It consists of 6 by 6 inch timbers, fastened to the ground by iron star anchors, and has a 4-inch iron strip bolted on its face.

Top of rail in front of Pittsburg, Cincinnati, Chicago and St. Louis Railroad depot is 50.8 feet above zero of the gage, and 450 feet above mean sea level. Top of water table at the southeast corner of the William Tell House is 53.7 feet above zero of the gage, and 452.9 feet above mean sea level.

Graduation is from 5 to 48.1 feet above zero. Highest water was 61.8 feet on February 15, 1884; lowest, 2.8 feet, on October 27, 1892. Danger line is at 46 feet.

Station was closed from September 1, 1893, to November 14, 1899, inclusive.

MARIETTA, OHIO.

Marietta, Ohio, is on the Ohio River, at the mouth of the Muskingum River, 795 miles from the mouth of the Ohio, and 10 miles above Parkersburg, W. Va. The drainage area above the station is 32,400 square miles.

The river gage is located on the east side of the levee at the foot of Second street, and is in four sections. From zero to 4.5 feet, graduation is on a large oak post at foot of levee. From 4.5 to 34.5 feet the gage is constructed of sandstone along the surface of levee. This section is 180 feet in length. From 34.1 to 45.5 feet, graduation is on cedar post set beside the stone gage.

From 41 to 54 feet, gage is on a house at head of levee near stone gage. The two upper sections are painted. The gage belongs to the city of Marietta.

Bench mark, the top of the stone foundation at the southwest corner of J. N. Peaker's brick house, which stands on the northeast corner of Ohio and Second streets, is 41 feet above zero of gage, and 623 feet above mean sea level. The stone is marked B. M.

Graduation is from zero to 54 feet above. Highest water was 52 feet on February 9, 1884; lowest, 1.3 feet on October 23 to November 1, 1895. Danger line is at 25 feet.

Station was discontinued June 30, 1897.

MARYSVILLE, CALIFORNIA.

Marysville, Cal., is on the Yuba River, at its junction with the Feather River, 51 miles above Sacramento. The width of river at low water is 400 feet. The drainage area above the station is 3,540 square miles.

The river gage, owned by the city, is a 1 by 12 inch plank attached to bridge pier at the foot of D street, on the side of the river near the city. It is painted white with black graduations in feet, quarter feet, and inches.

Bench mark, on the bridge outside the levee, is 48.5 feet above zero of gage, and 71.8 feet above mean sea level.

Bench mark, notch in left-hand iron casing (looking south), on second door of W. T. Ellis's building, northwest corner of First and D streets, 3.4 feet from top of casing, is 13 feet above zero of gage, and 36.3 feet above mean sea level.

Graduation is from zero to 21 feet above, with an extension to 23.5 feet on bridge-tender's house. Highest water was 19 feet on December 25, 1892; lowest, 5.3 feet in September, 1883. Danger line at Marysville is at 19 feet; for the rivers below the city, 16 feet.

MELVILLE, LOUISIANA.

Melville, La., is on the Atchafalaya River, about 30 miles from its junction with the Red and 100 miles from the Gulf. The width of river at low water is 900 feet.

The river gage is located 20 feet north of the Texas and Pacific track, at center of turning span in railroad bridge. It is made of 2 by 6 inch cypress and is attached to a pine piling in protection dike. The graduation is with copper tacks. Gage was erected by the Engineer Corps and the Texas and Pacific Railroad.

Bench mark A (Ewen, 1889) is a cross cut on top surface of iron cylinder pier of the Texas and Pacific Railroad bridge. The pier is the upstream one of the first two from the right bank. The point is as near the center of top of pier as possible. It is near the upstream edge of the truss shoe which the pier supports. The height above zero of gage is 40.8 feet, and above mean sea level, 39.7 feet. Bench mark B (Ewen, 1889) is the top of a 2-inch iron pipe driven down nearly to the surface of the ground in the woods on the downstream side of the Texas and Pacific Railroad embankment; its elevation above zero of gage is 28.5 feet, and above mean sea level, 27.4 feet. The base of rail on bridge is 44.9 feet above zero of gage.

Graduation is from zero to 37 feet above. Highest water was 37 feet on March 31, 1882; lowest, 1 foot on November 12-13, 1894. Danger line is at 31 feet.

MEMPHIS, TENNESSEE.

Memphis, Tenn., is on the Mississippi River, 843 miles from its mouth, and 76 miles above Helena, Ark. The width of river is 3,500 feet. The drainage area above the station is 925,000 square miles.

The river gage built on August 16, 1889, of the vertical type, is attached to piling of the elevator hoist and extends from 6 to 39 feet. It is made of 2 by 4 inch cypress, marked by grooves and figures burnt into the wood. On account of sandbar, it is useless below 15 feet. A second gage was built in 1893 at the foot of Beal street, three-quarters of a mile below the former. This gage is in three sections, attached to the inclined tramway of the Pittsburg Coal Company. It is made of 2 by 4 inch pine, and graduated like the other gage from -3 to 39 feet. Both belong to the United States Engineer Corps.

U. S. P. B. M., Memphis, the center of hole in head of copper bolt set horizontally in face of subsill of basement window, first window from southwest corner of west side of custom-house, marked U. S. B. M., is 80.4 feet above zero of gage, and 263.1 feet above mean sea level.

Graduation is from 3 feet below to 39 feet above zero. Highest water was 37.3 feet on April 11-12, 1898; lowest, -2.7 feet on November 9, 1895. Danger line is at 33 feet.

MIFFLIN, PENNSYLVANIA.

Mifflin, Pa., is on the Juniata River, 30 miles from its junction with the Susquehanna. The distance to Harrisburg, on the Susquehanna, is 45 miles.

The river gage, belonging to the Pennsylvania Railroad, is painted on pier of county bridge and graduated to feet and half feet. Shelf of coal tipple of Pennsylvania Railroad, north face of pier, is 36.2 feet above zero of gage, and 445 feet above mean sea level.

Graduation is from 8 to 31 feet above zero. Highest water was 37.5 feet on June 1, 1889; lowest, 0.6 foot, on November 1, 1895. Danger line is at 27 feet.

MONROE, LOUISIANA.

Monroe, La., is on the Ouachita River, 100 miles above its confluence with the Tensas. The distance to New Orleans is 411 miles. The width of river is 300 feet. The drainage area above the station is 17,760 square miles.

The river gage was erected by the Weather Bureau. It is of 2 by 8 inch cypress, painted, and graduated in copper tacks. Gage is located on the downstream side of east pier of Vicksburg, Shreveport and Pacific Railroad bridge.

U. S. P. B. M. 24 (Red River survey), in railroad shop yard, 26.2 feet north of center line of main track and 7.7 feet east of the east line of office, a copper bolt in square stone under the ground, is 40.6 feet above zero of gage and 70.5 feet above mean sea level. The cap of iron pipe covering copper bolt is 4 feet higher.

Graduation is from zero to 50 feet above. Highest water was 49.1 feet in 1874; lowest, 0.0, in 1881, 1897, and 1899. Danger line is at 40 feet.

MONTGOMERY, ALABAMA.

Montgomery, Ala., is on the Alabama River, 265 miles from its mouth and 53 miles above Selma, Ala. The width of river at low water is 690 feet. The drainage area above the station is 13,500 square miles.

The river gage is made of pine plank, painted white, and is in six sections. The lowest section (-2 to 10 feet) is on fender of face of wharf and is 108 feet east of lower end of wharf at foot of Commerce street. The second section (10 to 15 feet) is at east or upper end of pile protection to the Louisville and Nashville Railroad bank. The third section (15 to 27 feet) is on lower side of Commerce street sewer and on bent in center of drain under sewer. The fourth section (27 to 36 feet) is on east or upper side of sewer, on third bent in drain. The fifth section

(36 to 46 feet) is on same side of sewer, on sixth bent in drain. The sixth section (46 to 50 feet) is on same side of sewer, on seventh bent in drain and at top of slope of sewer. Graduations are burnt in the face of the gage. It is the property of the United States Engineer Corps.

Bench mark, northeast corner of stone doorsill of north door of Windsor Hotel, on Commerce street, is 59.7 feet above zero of gage and 163.4 feet above mean sea level. Top of rail in Louisville and Nashville Railroad depot is 58.3 feet above zero of gage and 162 feet above mean sea level.

Graduation is from 2 feet below to 50 feet above zero. Highest water was 59.7 feet, on April 1, 1886; lowest, —1.5 feet, on September 21, 1896, and October 6–16, 1897. Danger line is at 35 feet.

MORGANTOWN, WEST VIRGINIA.

Morgantown, W. Va., is on the Monongahela River, 95 miles from its mouth and 14 miles above Greensboro, Pa. The width of river at low water is 570 feet. The drainage area above the station is 2,750 square miles. A dam was built in 1879 at a point 9 miles below Morgantown, which place is the head of the slack-water improvement.

A new river gage was established by the Weather Bureau in 1895, and is located at the lower end of the wharf. It is constructed of dressed stone set on edge, and graduations are cut in the stone. Length of gage is 89 feet. Readings were commenced on January 1, 1896.

Zero of new gage is established at the height of the upper miter sill of lock No. 9, being 1.4 feet lower than that of the old gage, and 788.4 feet above mean sea level.

Highest water was 30 feet, on July 11, 1888; lowest, 2.4 feet, on July 21, 1886. Danger line is at 20 feet.

At a zero stage there is no water in the channel.

Station was discontinued on June 30, 1897.

MOUNT CARMEL, ILLINOIS.

Mount Carmel, Ill., is on the Wabash River, 50 miles above its junction with the Ohio. The distance to Shawneetown, Ill., on the Ohio, is 60 miles. The width of river at low water is 970 feet. The drainage area above the station is 26,300 square miles.

The river gage, which belongs to the United States Engineer Corps, is a painted 1-inch oak board attached to the first pier from the west side of the river of the Louisville, Evansville and St. Louis Railroad bridge. The flat top of surface of pier is 29.3 feet above zero of gage and 405.9 feet above mean sea level. Top of rail at depot of Louisville, Evansville and St. Louis Railroad is 13.4 feet above zero of gage and 390 feet above mean sea level.

Graduation is from zero to 26.5 feet above. Highest water was 28.3 feet on August 7, 1875; lowest, —0.2 foot on November 7–23, 1895. Danger line is at 15 feet.

MOUNT VERNON, INDIANA.

Mount Vernon, Ind., is on the Ohio River, 148 miles from its mouth and 101 miles above Paducah, Ky. The width of river at low water is 3,300 feet. The drainage area above the station is 126,600 square miles.

The river gage, which belongs to the Weather Bureau, is located on the west side of the stone wharf. It is made of oak timbers, with an iron strap, and is embedded in earth and stone. Graduation is cut in the strap. Zero of the gage is low water of 1857.

Bench mark is a square stone (engraved) set on levee or wharf at foot of Store street. It is the high-water level of February 24, 1884, and is 51 feet above zero of the gage and 365 feet

above mean sea level. Top of rail at Louisville and Nashville Railroad station is 93 feet above zero of the gage and 407 feet above mean sea level.

Graduation extends from zero to 52 feet above. Highest water was 51.7 feet on February 22, 1884; lowest, unknown amount below zero on September 11-28, 1894, and from October 3 to November 26, 1895. Danger line is at 35 feet.

MUSCATINE, IOWA.

Muscatine, Iowa, is on the Mississippi River, 1,562 miles from its mouth and 99 miles above Keokuk, Iowa. The width of the river is 2,250 feet. The drainage area above the station is 93,300 square miles.

The river gage is located in the pump well of the waterworks. It is graduated only for the 16-foot stage, the other stages being obtained from a sliding rod graduated to feet and tenths. It belongs to the water company. Zero of the gage is the low water of 1864, and is 529.4 feet above mean sea level.

City bench mark is the top of the southeast corner on north side of the railroad track, Muscatine high bridge. It is 21.3 feet above zero of the gage and 550.7 feet above mean sea level.

Highest water was 18.3 feet on June 28, 1892; lowest -1.1 feet on January 7, 1890. Danger line is at 16 feet.

NASHVILLE, TENNESSEE.

Nashville, Tenn., is on the Cumberland River, 175 miles from its mouth. The river at low water is 675 feet wide. The drainage area above the station is 11,600 square miles.

The river gage, belonging to the Engineer Corps, is at the foot of Broad street. It is in three sections, two upright and one inclined. The lower section (-0.2 to 46 feet) is on the incline of the bank and is made of timbers buried in the ground, with an iron strap on top, into which the markings are cut. From 46 to 53 feet the gage is on a small building at top of bank. It consists of a piece of timber painted white with markings in black. The upper section (52 to 55.3 feet) is on the corner of Temperance Hall, painted on the stone in white with black markings. There is also a vertical section reading from -1.2 to 2 feet. Zero of gage is 110.3 feet on city levels.

Bench mark, cross cut on upper face of corner stone in southeast corner of Temperance Hall, on Broad street, near Front, is 52 feet above zero of gage, and 366.6 feet above mean sea level. Top of rail in depot of Nashville, Chattanooga and St. Louis Railroad is 120.2 feet above zero of gage, and 434.8 feet above mean sea level.

Graduation is from 2 feet below to 55.3 feet above zero. Highest water was 55.3 feet on January 22, 1882; lowest -0.4 foot, on October 15-16, 1878. Danger line is at 40 feet.

NEW ORLEANS, LOUISIANA.

New Orleans, La., is on the Mississippi River, 108 miles above the Gulf. The river is 2,400 feet wide. The drainage area above the station is 1,235,600 square miles.

The river gage is the property of the city and is situated at the foot of Canal street among a cluster of piles in rear of ferry wharf. It is made of cypress, and is painted white with markings in black.

Bench mark at corner of Common and Delta streets, on iron cornice, 6 inches above sidewalk at E. Conery's store, is 16.5 feet above zero of gage, and 14 feet above mean sea level. Curbstone under third window of custom-house from Decatur street, and on Custom-house street, is 11 feet above zero of gage, and 8.5 feet above mean sea level.

Graduation is from zero to 19 feet above. Highest water was 19.5 feet on May 13, 1897; lowest -0.2 foot on December 27, 1872 (reduced from Carrollton gage). Danger line is at 16 feet.

NEWPORT, ARKANSAS.

Newport, Ark., is on the White River, 150 miles above its junction with the Arkansas. The distance to Arkansas City, on the Mississippi, is 200 miles. The river is 375 feet wide. The drainage area above the station is 17,600 square miles.

The river gage is located at the elevator, is made of wood, and is in two sections; one section (-2 to 9 feet) was constructed by the Weather Bureau in 1893, and is set in deep water for use under low-water conditions. The second section (-2 to 34.5 feet) is on the second inshore pile on the west side of elevator building. Gage was erected by Engineer Corps, and markings are burnt into the wood. The zero of gage is at the low water of 1878.

Bench mark "A" (Ewens, 1894) is a horizontal line cut on second limestone course about 1.9 feet above bottom of sill on south wall in opening of the west window of court-house; letter "A" is cut above the mark. Elevation is 33 feet above zero of gage, and 231.1 feet above mean sea level.

Graduation is from 2 feet below to 34.5 feet above zero. Highest water was 33.4 feet on March 14, 1890; lowest, 0.0 in 1878. Danger line is at 26 feet.

NISBET, PENNSYLVANIA.

Nisbet, Pa., is on the West Branch of the Susquehanna River, 43 miles from its mouth, and 8 miles above Williamsport, Pa.

The river gage, belonging to the railroad company, is painted on the bridge pier. It is graduated to feet and half feet.

Zero of gage is 525.5 feet above mean sea level.

Graduation is from zero to 26 feet above. Highest water was 33.3 feet; lowest, -4 feet, date unknown. Danger line is at 26 feet.

NORTH M'GREGOR, IOWA (PRAIRIE DU CHIEN, WISCONSIN).

North McGregor, Iowa, is on the Mississippi River, 1,759 miles from its mouth and 60 miles above Dubuque, Iowa.

The river gage is nailed to the oak piling forming platform to railroad freight house at Prairie du Chien, Wis. (east channel). It is a pine board 1 by 6 inches, with markings in black paint. It belongs to the United States Engineer Corps. Zero of gage is low water of 1864.

U. S. P. B. M. 233, is in North McGregor, on the north side of North street, in O. A. Bratsberg's brick store, in the water table 1 foot east from the entrance, being top of copper bolt leaded vertically; it is 26 feet above zero of gage, and 630.1 feet above mean sea level.

Graduation is from zero to 16 feet above. Highest water was 21.5 feet on June 22, 1880; lowest, 0.0, on November 28, 1891. Danger line is at 18 feet.

NORTHPORT, WASHINGTON.

Northport, Wash., is on the Columbia River in the extreme northeastern part of the State.

The river gage is made of 2 by 12 inch pine timber, and consists of an inclined and a vertical section. The inclined section is embedded in rock; the vertical section is attached to a tree. The entire gage has black markings on a white ground. It belongs to the Weather Bureau.

Bench mark is the top of rail at depot of Spokane and Northern Railroad; it is 56 feet above zero of the gage, and about 1,341.7 feet above mean sea level.

Graduation is from 2 to 54 feet above zero. Highest water was 53 feet on June 7, 1894; lowest, stage unknown, on December 20, 1893. Danger line is at 50 feet.

OAKDALE, GEORGIA.

Oakdale, Ga., is on the Chattahoochee River, 8 miles northwest of Atlanta, Ga., and 305 miles from the mouth of the river. It is also 66 miles above Westpoint, Ga. The drainage area above the station is 1,560 square miles.

The river gage is a standard wire cable gage belonging to the United States Geological Survey, and is located on the Southern Railway bridge.

Bench mark is a railroad spike in southeast corner of right bank pier, near the ground. It is 12.4 feet above zero of gage, and 765.9 feet above mean sea level. Base of rail on bridge is 56 feet above zero of gage, and 809.5 feet above mean sea level.

Graduation is from zero to 17 feet, but can be extended as much as may be desired. Highest water since 1895 was 26.8 feet, on September 3, 1898; lowest, —0.6 foot, in September and October, 1895, and on September 27–30, 1899.

Station was established by the Weather Bureau on June 1, 1899.

OIL CITY, PENNSYLVANIA.

Oil City, Pa., is on the Allegheny River at the junction of Oil Creek, 50 miles above Parker, Pa. It is 123 miles from the mouth of the river. The width of river is 600 feet. The drainage area above the station is 4,530 square miles. Oil Creek drains an area of about 270 square miles.

The river gage is on the south bank of river, above the mouth of Oil Creek. It is of oak, painted, and graduated by copper tacks. Its ownership is unknown. The zero of gage is on a level with bed of river on Charlies Oven Ripple, the shallowest point between Oil City and Pittsburg.

Graduation is from zero to 20 feet above. Highest water was 21 feet on March 17, 1865; lowest, —0.8 foot, on September 22, 1881. Danger line is at 13 feet.

Zero of gage is 980 feet above mean sea level, and 25 feet below top of rail in Lake Shore and Michigan Southern Railroad depot.

OMAHA, NEBRASKA.

Omaha, Nebr., is on the Missouri River, 669 miles from its mouth, and 28 miles above Plattsmouth, Nebr. The river is 900 feet wide. The drainage area above the station is 323,100 square miles.

The river gage is of wire-cable pattern, and belongs to the Missouri River Commission. The graduations are burnt into horizontal 1 by 5 inch oak planks fastened to the guard-rail on the west span of the Union Pacific Railroad bridge. The marking is from 541.5 to 569.0 feet, and readings are obtained by subtracting 545.8 feet from observed values. Zero of gage is low water of 1867.

Bench mark (Omaha City) is a copper bolt on the upper surface of water table in old post-office building, corner of Fifteenth and Dodge streets. It is 81.7 feet above zero of gage, and 1,040.2 feet above mean sea level.

U. S. P. B. M. 346 is 59 feet south of the south cylindrical pier next to the river at west end of the Union Pacific Railroad bridge over the Missouri, and 39 feet east of east switch track of the Burlington and Missouri River Railroad, being a copper bolt in bench-mark stone. It is 971.9 feet above mean sea level, and 13.4 feet above zero of the gage.

Graduation is from 4.3 feet below to 23.2 feet above zero. Highest water was 23.8 feet on April 24, 1881; lowest, 1.6 feet, on December 3, 1867. Danger line is at 18 feet.

OROVILLE, CALIFORNIA.

Oroville, Cal., is on the Feather River, 32 miles above Marysville, Cal., and 83 miles above Sacramento, Cal. The river at low water is 400 feet wide. The drainage area above the station is 3,100 square miles.

The river gage, belonging to the Weather Bureau, is made of 2½-inch galvanized-iron pipe, painted to feet and tenths. It is located at the bridge over Feather River, at the end nearest the city. The curbstone in front of the Union Hotel is 23 feet above zero of gage, and 162.8 feet above mean sea level. Top of granite base at foot of right-hand pillar, entrance to Rideout Bank, corner of Myers and Montgomery streets, is 26.8 feet above zero of gage, and 166.6 feet above mean sea level.

Graduation is from zero to 30 feet above. Highest water was 25 feet in February, 1881; lowest, -2 feet, on December 15-16, 1886. Danger line is at 25 feet.

PADUCAH, KENTUCKY.

Paducah, Ky., is on the Ohio River, 47 miles above Cairo, Ill., at its mouth. The river at low water is 4,200 feet wide. The drainage area above the station is 201,200 square miles.

The river gage belongs to the United States Engineer Corps. The lower section is located on the north side of Broadway street, beginning at the east side of First street and extending along the levee as it declines to low water at the steamboat landing. It is made of 12 by 12 inch oak timber, planted in the ground, and with an iron strap, one-half by 4 inches, spiked along the top. The upper section is made of 2 by 4 inch scantling, nailed to the wall of Fowler, Crumbaugh & Co.'s boat store. Markings on the lower section (-3 to 48 feet) are cut into the iron strap; on the upper section (48 to 56 feet) they are cut into the scantling.

Bench mark, northwest corner of Broad and Kolb streets, is 60.5 feet above zero of the gage, and 339.7 feet above mean sea level. Bench mark, northwest corner of Third and Elizabeth streets, is 56.4 feet above zero of the gage, and 335.6 feet above mean sea level.

Graduation is from 3 feet below to 56 feet above zero. Highest water was 54.2 feet on February 23, 1884; lowest, -0.7 foot, on October 30-November 4, 1895. Danger line is at 40 feet.

PARKER, PENNSYLVANIA.

Parker, Pa., is on the Allegheny River, 73 miles from its mouth and 23 miles above Mahoning, Pa. The river is 500 feet wide. The drainage area above the station is 6,020 square miles.

The river gage is in two sections. The lower section (9 feet in length) is attached to the east abutment of the bridge. The upper section (21 feet in length) is attached to the first pier. Graduation is painted on gage. The zero of gage at elevation of the top line of foundation of pier is 38.6 feet below top of rail in front of Allegheny Valley Railroad depot, and 849.4 feet above mean sea level.

Highest water was 28 feet in March, 1865; lowest, -0.9 foot on September 7, 1894. Danger line is at 20 feet.

PARKERSBURG, WEST VIRGINIA.

Parkersburg, W. Va., is on the Ohio River, at the mouth of the Little Kanawha, 785 miles from the mouth of the Ohio, and 82 miles above Point Pleasant, W. Va. The river is 1,350 feet wide at low water. The drainage area above the station is 34,600 square miles.

The river gage is at the junction of the Little Kanawha with the Ohio River. It is of wood, painted white, with black markings for each two-tenths of a foot, and is attached to the north pier of the Ohio River Railroad bridge over the Little Kanawha River. An inclined supplementary gage extends from -1 to 10 feet, being necessitated by building of levee. They belong to the Weather Bureau.

Bench mark, top of stone pier of Ohio River Railroad bridge, to which gage is attached, is 60 feet above zero of the gage, and 624 feet above mean sea level. Bench mark on water table, near southwest corner of United States post-office and court-house building, is 52.2 feet above zero of gage, and 616.2 feet above mean sea level.

Graduation is from zero to 58 feet above. Highest water was 52.6 feet on February 9, 1884; lowest, -1.3 feet on October 30, 1879. A correction of -1.3 feet has been applied in order to obtain these readings. Previous readings were referred to the zero of gage at Belpre, Ohio, on the Baltimore and Ohio Railroad bridge, which is 1.3 feet lower than that of the present gage. Danger line is at 36 feet.

PEORIA, ILLINOIS.

Peoria, Ill., is on the Illinois River, 135 miles from its mouth, and 65 miles above Beardstown, Ill. The river is 600 feet wide at low water. The drainage area above the station is 15,700 square miles.

The river gage, belonging to the Weather Bureau, is an oak plank, 6 inches wide, nailed to a pile in the protecting work of the draw pier of the Peoria wagon bridge. The pile is distant 42 feet upstream from the pier. It is painted white, with markings in black.

Bench mark, the top of water table on the southeast corner of the court-house, is 77.4 feet above zero of gage, and 510.8 feet above mean sea level. The top surface of bottom chord of bridge, directly over the center of the pivot pier, is 27.7 feet above zero of gage, and 461.1 feet above mean sea level.

Graduation is from zero to 22 feet above. Highest water was 21.9 feet on May 9, 1892; lowest, 2.6 feet on October 7, 1890. Danger line is at 14 feet for points below. No flood can endanger the city.

PHILIPPI, WEST VIRGINIA.

Philippi, W. Va., is on the Tygarts Valley River, 33 miles above its confluence with the West Fork of the Monongahela. The distance to Fairmont, W. Va., on the Monongahela, is 36 miles. The width of river at low water is 375 feet. The drainage area above the station is 620 square miles.

The river gage is cut in the stone of the bridge pier, and has white graduations on a black ground. It belongs to the Weather Bureau.

Bench mark is a cross cut in the stone at top of the gage; it is 20 feet above zero of the gage, and 1,340 feet above mean sea level.

Graduation extends from zero to 20 feet above. Highest water was 20 feet in July, 1888; lowest, -2.4 feet on September 7, 1895. Danger line is at 10 feet.

PIERRE, SOUTH DAKOTA.

Pierre, S. Dak., is on the Missouri River, 1,114 miles from its mouth, and 330 miles above Sioux City, Iowa. The width of the river at low water is 2,625 feet, and at high water 1 mile. The drainage area above the station is 243,600 square miles.

The old river gage was of wood, painted white, and graduated in copper tacks. It was abandoned on July 6, 1896, and since that date readings have been obtained from the United States

engineers' gage at Fort Pierre, on the opposite side of the river. This gage is a horizontal pipe beam, with cable and weight, the markings being cut on an oak plank. It is located 350 feet below the mouth of Bad River on a revetted bank.

Bench mark, Upper Missouri River Commission, No. 242, is 1,451.6 feet above mean sea level, and 36 feet above zero of the gage. It is a flat rock, 4 feet under ground, with an iron pipe extending from the top of the stone to the surface of the ground. It is 700 feet back from the river, the same distance above Bad River, and on Gumbo Hill, just back of houses on Deadwood street. Bench mark on southeast end of first stone step from sidewalk, at entrance to Bank of Commerce, in the town of Pierre, is 25.8 feet above zero of gage, and 1,441.4 feet above mean sea level.

Graduation is from about 8 feet below to 15.3 feet above zero. Highest water was 21 feet in March, 1881; lowest, -4.2 feet on November 18-19, 1893. Danger line is at 14 feet.

PITTSBURG, PENNSYLVANIA.

Pittsburg, Pa., is at the confluence of the Allegheny and Monongahela rivers, 966 miles from the mouth of the Ohio, and 91 miles from Wheeling, W. Va. The drainage area above the station is 17,000 square miles. The Davis Island Dam, 6 miles below the city, was put in operation October 7, 1885. When the wickets of the dam are raised to their full height, the stage of water by gage is about 6.0 feet. All stages of water below this will be influenced by the operation of the dam. The distance to Beaver Dam, below, is 41 miles.

The river gage, situated at the foot of Market street, belongs to the city of Pittsburg. It is made of curbstones set flush with the pavement of the wharf, the graduation being cut into the stone in feet and quarter feet. The zero of gage is the wharf log.

Top of rail in Union Depot is 46 feet above zero of gage, and 743 feet above mean sea level. Shelf on southeast corner of Pennsylvania Railroad Company's building on Pennsylvania avenue, is 47.1 feet above zero of the gage, and 744.1 feet above mean sea level.

Graduation is from zero to 33 feet above. Highest water was 35 feet on February 10, 1832; lowest, -1.3 feet on September 28, 1881. Danger line is at 22 feet.

PLATTSMOUTH, NEBRASKA.

Plattsmouth, Nebr., is on the Missouri River, 641 miles from its mouth, and 160 miles above St. Joseph, Mo. The width of river at low water is 825 feet. The drainage area above the station is 416,000 square miles.

The river gage is on the central span of the Burlington and Missouri Railroad bridge, and is a standard wire-cable gage, belonging to the Missouri River Commission. Markings are from 525 to 546 feet and are cut into oak planking and painted black. The stages of water are obtained by subtracting 529.0 feet from the readings of the gage.

Reference bench mark is a Government bench mark described as "top of stone foundation of north end of first iron bent, west of the right-bank pier of the Burlington and Missouri River Railroad bridge across the Missouri. The bench mark is the highest part of the stone between the grooves at northeast corner of cross (+);" elevation is 16.6 feet above zero of the gage, and 957.7 feet above mean sea level.

Graduation is from 4 feet below to 17 feet above zero. Highest water was 19.2 feet on April 24, 1881; lowest, -2.2 feet on December 6-7, 1895. Danger line is at 17 feet.

POINT PLEASANT, WEST VIRGINIA.

Point Pleasant, W. Va., is on the Ohio River, 703 miles from its mouth, and 52 miles above Catlettsburg, Ky. The drainage area above the station is 48,900 square miles.

The river gage, which belongs to the Weather Bureau, is at the upper end of the public wharf, in two sections. The lower section (zero to 26.2 feet) is inclined and made of stone, its length being 147 feet. The upper section is of wood and extends to 60.5 feet. Markings are cut in the stone and painted on the wood.

Bronze tablet in west face of monument in court-house yard, 100 feet west of Mason County court-house, is 60 feet above zero of the gage and 570.2 feet above mean sea level. A mark on a stone, 6 inches from the corner of the building at the northeast corner of Main and First streets, is 52.8 feet above zero of the gage and 563 feet above mean sea level.

Graduation is from zero to 60.5 feet above. Highest water was 60 feet in February, 1884; lowest, 0.7 foot on October 27, 1893. Danger line is at 39 feet.

PORTLAND, OREGON.

Portland, Oreg., is on the Willamette River, 10 miles above its junction with the Columbia. The river is 410 feet wide at low water. The drainage area above the station is 12,200 square miles. The drainage area of the Columbia River above the mouth of the Willamette is 244,400 square miles.

The river gage was erected by the Weather Bureau in 1896. It is located on the false work of the draw of the Morrison street bridge. It consists of a fir plank, 2 by 12 inches, painted white with black graduations.

City datum, strip of brass in southeast stone of water table in northeast corner of brick building on southwest corner of Front and Washington streets, is 26.5 feet above zero of the gage and 31 feet above mean sea level.

Zero of the gage is at same elevation as that of the old Stark street gage.

Graduation is from 3 feet below to 35 feet above zero. Highest water was 33 feet on June 7, 1894; lowest, -2.2 feet on December 8, 1890. Danger line is at 15 feet.

PORTSMOUTH, OHIO.

Portsmouth, Ohio, is on the Ohio River, 612 miles from its mouth, and 113 miles above Maysville, Ky. The river at low water is 900 feet wide. The drainage area above the station is 63,700 square miles.

The river gage is a line of stone 3 feet wide extending down the wharf in front of the Biggs House. It is graduated in feet and half feet. The stone pavement in front of the Biggs House reads 57.5 feet on the gage. The gage does not extend beyond this, and belongs to the city of Portsmouth.

Low water of 1881 is marked by a stone set in the bank and inscribed "Low water of September 15, 1881." This is 1.3 feet on the gage, and is 474 feet above mean sea level. The doorsill at the inner edge of the sidewalk at the Biggs House, at the head of the gage, is 57.5 feet above zero of the gage, and 530.2 feet above mean sea level. Zero of the gage is equivalent to hard bottom in the Ohio River between Portsmouth and Cincinnati.

Graduation extends from zero to 57.5 feet above. Highest water was 66.3 feet on February 12, 1884; lowest, 1.2 feet on October 29, 1895. Danger line is at 50 feet.

RADFORD, VIRGINIA.

Radford, Va., is on the New River, 155 miles from its mouth, and about 60 miles above Hinton, W. Va. Approximate width of river, 600 feet.

The river gage is made of oak, and is attached to iron girder of bridge. Graduation is in brass figures and copper tacks. The gage belongs to the Weather Bureau. Top of rail in front

of Norfolk and Western Railroad depot is 57 feet above zero of the gage, and 1,773 feet above mean sea level.

Graduation extends from zero to 36 feet above. - Highest water was 34 feet on September 15, 1878; lowest, -0.5 foot on September 10-11 and October 8, 1899. Danger line is at 14 feet.

RED BLUFF, CALIFORNIA.

Red Bluff, Cal., is on the Sacramento River, 241 miles from its mouth and 95 miles above Colusa, Cal. The drainage area above the station is 9,356 square miles.

The river gage is located on the east side of the river, opposite the city, about 30 feet above the wagon bridge. It is of 4 by 6 inch timber, and is bolted to a sycamore tree. It is painted white with black graduations, and belongs to the Weather Bureau.

Bench mark, top of rail near Southern Pacific Railroad depot, is 63 feet above zero of the gage and 306 feet above mean sea level.

Graduation extends from zero to 32 feet above. Highest water was 29.5 feet on February 4, 1881; lowest, -0.9 foot, from August 25 to October 10, 1899. Danger line is at 23 feet for points below. The city itself is never in danger from floods.

REDDING, CALIFORNIA.

Redding, Cal., is on the Sacramento River, 292 miles from its mouth and 51 miles above Red Bluff, Cal. The width of river at low water is 280 feet. The drainage area above the station is 8,860 square miles.

The river gage is of 4 by 6 inch timber and is located on the lower side of the lower iron cylinder of the west pier of the bridge across the river on the road from Redding to Millville, about $1\frac{1}{4}$ miles below Redding. Graduation is in black paint on a white ground. Gage belongs to the Weather Bureau.

The top of the east edge of the above-described cylinder is 29 feet above zero of gage, and about 481 feet above mean sea level.

Top of rail in Southern Pacific Railroad depot is about 103 feet above zero of the gage and 555 feet above mean sea level.

Graduation is from 3 feet below to 30 feet above zero. Highest water was 23 feet in 1881; lowest, 0.2 foot in 1889. Danger line is at 20 feet.

RED WING, MINNESOTA.

Red Wing Minn., is on the Mississippi River, at the head of Lake Pepin, 1,914 miles from the mouth of the Mississippi, and 30 miles above Reeds Landing, Minn. The river gage is located on the Diamond Jo warehouse, on downstream face of recess in crib work, spiked to timbers. It is a staff gage, painted white with black graduations, and belongs to the United States Engineer Corps. The zero of the gage is low water of 1864.

U. S. P. B. M. 112, on southwest corner of Plum and Levee streets, is center of copper bolt set in east face of foundation wall of La Grange mill, 2.3 feet south from north face, and 2.1 feet above sidewalk. It is 22.7 feet above zero of the gage, and 686.9 feet above mean sea level.

Graduation is from zero to 16 feet above. Highest water was 15.3 feet on June 18, 1880; lowest, 0.0, in 1864. Danger line is at 14 feet.

REEDS LANDING, MINNESOTA.

Reeds Landing, Minn., is on the Mississippi River, at the foot of Lake Pepin, 1,884 miles from its mouth, and 65 miles above La Crosse, Wis.

The river gage is a staff painted white, with graduation in black. It is spiked to piling on west side of draw of pontoon bridge. Gage belongs to Engineer Corps, and its zero is low water of 1864.

U. S. P. B. M. 139 is top of cap on iron pipe set over U. S. P. B. M. 138. It is located 58 feet east from the intersection of the south fence of Water street with the tangent, produced, of the pontoon bridge, in the northeast corner of Arthur Dunn's lot, 8 feet south from the front fence and 1.6 feet west of the east fence. It is 24.9 feet above zero of the gage and 688.2 feet above mean sea level.

Graduation is from zero to 16 feet above. Highest water was 14.8 feet in 1880; lowest, -0.9 foot, on March 16-18, 20-24, 1896, November 29 and December 6 and 8, 1898. Danger line is at 12 feet.

RENOVA, PENNSYLVANIA.

Renova, Pa., is on the West Branch of the Susquehanna River, 88 miles from its mouth, and 25 miles above Lock Haven, Pa.

The river gage, belonging to the Pennsylvania Railroad Company, is painted on bridge pier, and graduated to feet and half feet.

Top of rail in depot of Pennsylvania Railroad is 30.6 feet above zero of the gage, and 668 feet above mean sea level.

Graduation is from zero to 35 feet above. Highest water was 27.3 feet on June 1, 1889; lowest, -0.8 foot on September 21-25, 1898. Danger line is at 35 feet.

RESACA, GEORGIA.

Resaca, Ga., is on the Oostenaula River, 30 miles above its confluence with the Etowah at Rome, Ga. The width of river is 200 feet. The drainage area above the station is 1,527 square miles.

The river gage is a triangular yellow-pine timber attached to pier of railroad bridge. Markings are painted on gage. It is the property of the Weather Bureau. Top of rail in Nashville, Chattanooga and St. Louis Railroad depot is 40.7 feet above zero of gage, and 658 feet above mean sea level.

Graduation is from 1 foot below to 43.3 feet above zero. Highest water was 36.6 feet on April 1, 1886; lowest, 0.8 foot on October 22-29, 1894, and September 21, 1896. Danger line is at 25 feet.

REYNOLDS, GEORGIA.

Reynolds, Ga., is on the Flint River, 160 miles from its mouth, and 80 miles above Albany, Ga. The drainage area above the station is 2,000 square miles.

The river gage is located on the middle pier of the railroad bridge, 3 miles east of the town. Gage is of hard wood and markings are painted on it. It belongs to the United States Engineer Corps.

Graduation is from 2 feet below to 20 feet above zero. Highest water was 15.4 feet on March 15, 1897; lowest, -2.7 feet on November 15 and 23, 1899. Danger line is at 10 feet.

RICHMOND, VIRGINIA.

Richmond, Va., is on the James River, 110 miles above Hampton Roads at its mouth.

The river gage is located at the foot of Virginia street, immediately east of the Richmond and Danville Railroad bridge. It is a standard Weather Bureau brass gage, erected in 1899, and

is attached to a heavy stone embankment wall, being sunk flush in a cement buttress. Markings for feet are cut into the cement.

United States Coast and Geodetic Survey bench mark at the corner of Seventeenth street and Winston alley is 17.6 feet above zero of the gage, and 20.4 feet above mean sea level. Bench mark at the City Hall is 161.4 feet above zero of the gage, and 164.2 feet above mean sea level.

Graduation is from 1.3 feet below to 23.7 feet above zero. Highest water was 22 feet on February 18, 1899; lowest, —2.8 feet on September 29, October 29, November 12, and December 13 and 28, 1899. Danger line is at 12 feet.

RIVERTON, ALABAMA.

Riverton, Ala., is on the Tennessee River, 190 miles from its mouth, and 96 miles above Johnsonville, Tenn. The width of the river at low water is 1,075 feet, while at the bank full stage it is 1,600 feet.

The river gage, which belongs to the United States Engineer Corps, is a wooden staff gage in 6 sections which are nailed vertically to trees. It is painted, and the markings are also in paint. The first three sections (—2 to 33 feet) are located near Riverton Landing, while the upper three (10 to 48 feet) are at Lift Lock.

Bench mark is the top of the coping of the south wall of the lift lock at the lower corner of the lower gage recess. It is 27.8 feet above zero of the gage, and 387.4 feet above mean sea level.

Graduation is from 2 feet below to 48 feet above zero. Highest water was 50.3 feet on March 20, 1897; lowest, —2.5 feet, date unknown. Danger line is at 25 feet.

RIVERTON, VIRGINIA.

Riverton, Va., is on the Shenandoah River, 55 miles above its junction with the Potomac at Harpers Ferry, W. Va. The approximate width of the river is 1,000 feet. The drainage area above the station is 2,624 square miles.

The river gage is located on the middle pier of the Norfolk and Western Railroad bridge. The top of rail in the Southern Railway depot is 43 feet above zero of the gage, and 493 feet above mean sea level.

Graduation is from zero to 48 feet above. Highest water was 47 feet on September 30–October 1, 1870; lowest, stage unknown, in October, 1872. Danger line is at 22 feet.

ROCKWOOD, TENNESSEE.

Rockwood, Tenn., is on the Tennessee River, 519 miles from its mouth, and 89 miles above Chattanooga, Tenn. The width of river is 375 feet. The drainage area above the station is 16,200 square miles.

The river gage was erected by the Roane Iron Company, of Rockwood. It is made of heart pine, attached to a tree at Rockwood landing, 6 miles from Rockwood. Gage is painted white, with graduations in red and black paint.

Zero of gage is 699.7 feet above mean sea level.

Graduation is from zero to 46 feet above. Highest water was 44.5 feet in 1867; lowest, —0.8 foot on December 1–7, 1894. Danger line is at 20 feet.

ROME, GEORGIA.

Rome, Ga., is at the head of the Coosa River, at the junction of the Oostenaula and Etowah rivers. The distance to Gadsden, Ala., below, is 81 miles, and to the mouth of the river 225 miles. The drainage area above the station is 4,001 square miles.

The river gage is located at the bridge over the Oostenaula, at Fifth avenue, a short distance above the confluence of the rivers. It is of heart pine and is attached to stone pier of bridge. Markings are painted. Gage belongs to the Weather Bureau. Top of rail at railroad station is 38.2 feet above zero of the gage, and 614 feet above mean sea level.

Graduation is from 6.0 feet below to 43.0 feet above zero. Highest water was 40.3 feet on April 1, 1886; lowest, — 3.0 feet on October 26, 1894. Danger line is at 30 feet.

ROWLESBURG, WEST VIRGINIA.

Rowlesburg, W. Va., is on the Cheat River, 36 miles above its junction with the Monongahela. The distance to Greensboro, Pa., on the Monongahela River, is 40 miles. The river is 270 feet wide. The drainage area above the station is 890 square miles.

The river gage is on the center pier of the Baltimore and Ohio Railroad bridge. Graduation is painted on pier.

United States Coast and Geodetic Survey bench mark on base of center pillar on west end of Baltimore and Ohio Railroad bridge over Cheat River, is 26.7 feet above zero of the gage, and 1,402 feet above mean sea level.

Graduation is from zero to 17 feet above. Highest water was 22 feet on July 10, 1888; lowest, — 1.2 feet on October 25, 1897, and October 26–November 1, 1899. Danger line is at 14 feet.

SACRAMENTO, CALIFORNIA.

Sacramento, Cal., is on the Sacramento River, 70 miles above San Pablo Bay. The river is 900 feet wide. The drainage area above the station is 26,140 square miles.

The river gage is the property of the Southern Pacific Railroad and is located at the steamboat landing at the foot of K street. It is made of redwood and is attached to a pile at the end of steamboat warehouse. Gage is painted white, with black markings.

The zero of gage is low water of 1849, which coincides with city bench mark, and is 2 feet above mean sea level. Top of rail in Southern Pacific Railroad depot is 23 feet above zero of the gage, and 25 feet above mean sea level.

Graduation is from zero to 30 feet above. Highest water was 28.6 feet on December 27, 1892; lowest, 0.0, in September and on October 23, 1856. Danger line is at 29 feet for the city, and at 25 feet for points below.

SAINT JOSEPH, MISSOURI.

St. Joseph, Mo., is on the Missouri River, 481 miles from its mouth, and 93 miles above Kansas City, Mo. The width of river is 1,200 feet. The drainage area above the station is 426,900 square miles.

The river gage, belonging to the Missouri River Commission, is of wire-cable pattern, and is located on draw span of the Hannibal and St. Joseph Railroad bridge. Graduations are painted on oak planking and extend from 376 to 404 feet. Stage of water is obtained by subtracting 381.4 feet from observed readings.

T. B. M. 583 (old B. M. 312) is on the east pier of the Hannibal and St. Joseph Railroad bridge, 126 feet south of north edge of coping pier, being the highest point in southwest angle of marked cross. It is 24.6 feet above zero of the gage and 822.4 feet above mean sea level.

U. S. P. B. M. 286 is at the southeast corner of Felix and South Second streets, in the northwest corner of the city hall, 1 foot east of corner of building on Felix street, and 5 feet above

sidewalk, being center of punch mark in copper bolt leaded horizontally. It is 43.1 feet above zero of the gage and 840.9 feet above mean sea level.

Graduation is from 5.4 feet below to 22.6 feet above zero. Highest water was 26.5 feet on April 29, 1881; lowest, 3.4 feet, on November 28-29, 1898. Danger line is at 10 feet.

SAINT LOUIS, MISSOURI.

St. Louis, Mo., is on the Mississippi River, 1,264 miles above its mouth and 75 miles above Chester, Ill. The river at low water is 1,524 feet wide. The drainage area above the station is 699,000 square miles.

The river gage, belonging to the Engineer Corps, is at the foot of Market street. It is constructed of railroad iron spiked to 8 by 8 inch stringers, the latter being fastened to piles, and is laid along the incline and flush with the surface of the levee. Graduation is cut into the iron. When the water rises higher than 31.5 feet, an upright addition is provided, which is painted on a support of the Merchants' Terminal Association elevated tracks.

The St. Louis Directrix is 33.7 feet above zero of gage. U. S. P. B. M. 15, a small hole in copper bolt leaded into east side of west pier of arch No. 4 of the Eads Bridge, 20.1 feet south of north end of pier and 5.5 inches above top course of granite is 36.4 feet above zero of gage and 415.4 feet above mean sea level.

Graduation is from 1.0 foot below to 31.5 feet above zero. Highest water was 41.4 feet on June 27, 1844; lowest, -0.7 foot on January 27, 1895, and February 1, 1899. Danger line is at 30 feet.

SAINT PAUL, MINNESOTA.

St. Paul, Minn., is on the Mississippi River, 1,954 miles from its mouth, and 40 miles above Red Wing, Minn. The river is 570 feet wide at low water. The drainage area above the station is 36,085 square miles.

The river gage, which was rebuilt in 1899, is made of 2 by 8 inch pine timber, and is spiked to a vertical pile at the St. Louis and St. Paul Packet Company's wharf, between Jackson and Sibley streets. Markings are in copper tacks and brass figures, and the gage is the property of the Weather Bureau.

U. S. P. B. M. 68 is about 300 feet upstream from the gage. It is on the left bank of the Mississippi River, on lower wing wall of the Chicago Great Western Railway bridge, 4.8 feet above the lower end of the bridge seat course and 2.8 feet back from its front edge, being top of copper bolt leaded vertically. It is 18.6 feet above zero of the gage and 701.9 feet above mean sea level.

City datum of St. Paul is 10.4 feet above zero of the gage and 693.7 feet above mean sea level.

Graduation is from 1 foot below to 21 feet above zero. Highest water was 19.7 feet on April 29, 1881; lowest, -0.9 foot on March 19, 20, and 22, 1896. Danger line is at 14 feet.

SAINT STEPHENS, SOUTH CAROLINA.

St. Stephens Station, S. C., is on the Santee River, 50 miles from its mouth. The town is 4 miles from the river. The width of the river at low water is 525 feet. The drainage area above the station is 13,600 square miles.

The river gage is of hard pine, painted white, with markings in copper tacks and brass figures. It is attached to the downstream side of the central granite pier of the Atlantic Coast Line bridge. It was erected by the United States Engineer Corps and is kept in repair by the

Weather Bureau. Top of rail on bridge is 31 feet above zero of the gage and 73 feet above mean sea level.

Graduation is from 2 feet below to 23 feet above zero. Highest water was 20.2 feet on September 18, 1888; lowest, —2.0 feet on June 15–16, 1898. Danger line is at 12 feet.

SALEM, OREGON.

Salem, Oreg., is on the Willamette River, 69 miles from its mouth and 59 miles above Portland, Oreg. The river is 309 feet wide. The drainage area above the station is 7,940 square miles.

The river gage is made of Oregon fir, 2 by 12 inches, and is attached to piling at the Oregon Railway and Navigation Company's dock. It is painted white, with black graduations, and belongs to the Weather Bureau. Top of rail at Southern Pacific Railroad depot, 2 miles due east, is 195 feet above mean sea level and about 80 feet above zero of the gage.

Graduation is from 3 feet below to 29 feet above zero. Highest water since 1891 was 26.9 feet, on December 2, 1893; lowest, —2 feet on October 1–19, 1897. Danger line is at 20 feet.

SAN ANDREAS, CALIFORNIA.

The river gage is located about 2 miles from the town of San Andreas, Cal., on the Calaveras River. It is $1\frac{1}{4}$ miles from the North Branch bridge in an air line. It consists of a painted pine board with brass markings, and belongs to the Weather Bureau.

Bench mark, a white X, is on the projecting ledge on the southwest corner of an old chimney, known as Ellingwood's chimney, and is 9 feet above high water mark, or 25 feet above zero of the gage.

Zero of the gage is set at low water, which corresponds to a dry channel in the river. Danger line is at 20 feet.

SAN JOAQUIN BRIDGE (LATHROP), CALIFORNIA.

The gage is a vertical one, and is attached to the Southern Pacific Railroad drawbridge across the San Joaquin River. It is made of 1 by 6 inch pine, with markings painted thereon, and belongs to the State of California. Zero of the gage is 20 feet below a mark on a gum tree in the vicinity.

Graduation is from zero to 20 feet above. Highest water was 17.8 feet on May 19–21, 1895; lowest, 0.4 foot on November 19–28, 1887. Danger line is at 15 feet.

SELINGROVE, PENNSYLVANIA.

Selingrove, Pa., is on the Susquehanna River, 115 miles from its mouth and 45 miles above Harrisburg, Pa. The river at low water is about 1 mile wide, including an island 400 feet in width. The drainage area above the station is 17,600 square miles.

The river gage is located on the west abutment of the railroad bridge, is graduated in feet and half feet, and belongs to the Pennsylvania Railroad Company.

Graduation extends to 16 feet above zero. Highest water was 20 feet on June 2, 1889; lowest, 0.0, on August 7–23, 1893. Danger line is at 8 feet.

SELMA, ALABAMA.

Selma, Ala., is on the Alabama River, 212 miles from its mouth. The drainage area above the station is 15,400 square miles.

The river gage is in two sections; the lower (—3.0 to 2.3 feet) is secured to a pile in lower side of cofferdam of draw pier; the upper section (2.3 to 48.0 feet) is spiked to the highway bridge. The gage is made of pine planking, is painted white with black markings, and is the property of the United States Engineer Corps. Top of rail in depot of the Southern Railway, at Broad street, is 64.7 feet above zero of the gage, and 126 feet above mean sea level. Top of coping stone of pivot pier of highway bridge, to which gage is attached, is 56 feet above zero of the gage, and 117.3 feet above mean sea level.

Bench mark, iron bolt driven into face of rock bluff, 182.3 feet from center of north face of first pier, and above the bridge, on road ascending toward city, is 26 feet above zero of the gage, and 87.3 feet above mean sea level.

Graduation extends from 3.0 feet below to 48 feet above zero. Highest water was 57.0 feet on April 8, 1886; lowest, —2.0 feet from September 28 to October 19, 1897. Danger line is at 35 feet.

SHREVEPORT, LOUISIANA.

Shreveport, La., is on the Red River, 449 miles from its mouth, and 150 miles above Coushatta, La. The width of river at low water is 600 feet; at high water, 1,350 feet. The drainage area above the station is 56,900 square miles.

The river gage is in three sections, and belongs to the United States Engineer Corps. The first section (—6.0 to zero) is made of 2 by 4 inch scantling and spiked to a pile about 125 feet northwest of stone pier near west end of the Vicksburg, Shreveport and Pacific Railroad bridge; the second section (zero to 24 feet) is made of 2 by 8 inch cypress plank, set in groove of above-mentioned pier. The graduations are burned into these sections. The upper section (23.5 to 37.0 feet) is painted on iron pier at west end of bridge.

B. M. 2 is a cross cut in lower cap of retaining wall on southwest side of the Vicksburg, Shreveport and Pacific Railroad bridge. It is 40.8 feet above zero of the gage, and 180.8 feet above mean sea level. A cross cut in the curbstone on the north side of Cotton street at its intersection with the levee is 47.2 feet above zero of the gage, and 187.2 feet above mean sea level.

Graduation is from 6 feet below to 37 feet above zero. Highest water was 35.9 feet in 1849; high water of May 28, 1892, was 35.7 feet; lowest, —5.5 feet on December 2–4, 1894. Danger line is at 29 feet.

SINNAMAHONING, PENNSYLVANIA.

Sinnamahoning, Pa., is on the Sinnamahoning Creek, about 12 miles above Keating, Pa.

The river gage, which belongs to the Pennsylvania Railroad Company, is painted on the bridge pier, and is graduated in feet and half feet. Top of rail at Pennsylvania Railroad depot is 22.4 feet above zero of the gage, and 790 feet above mean sea level.

Graduation is from 3 feet below to 28 feet above zero. Highest water was 25 feet in 1847; lowest, —3 feet, on September 1, 1895, and in July, October, and November, 1897. Danger line is at 25 feet.

SIOUX CITY, IOWA.

Sioux City, Iowa, is on the Missouri River, 115 miles above Omaha, Nebr., and 784 miles from the mouth of the river. The river is 2,400 feet wide, and the drainage area above the station 314,900 square miles.

The river gage is located just below the mouth of Perry Creek. It is made of 1½ by 8 inch pine and is spiked to a clump of piling. Graduation is in black on a white ground. As this gage can not be read below the 10.2-foot stage, a supplementary gage is located at the foot of

Pearl street, about 500 feet below the other. It is made of 2 by 4 scantling, spiked to the piling of the Government dike, and the markings are cut into it. The gages are the property of the United States Engineer Corps.

Missouri River bench mark 466A is on the underside of a marked brick on the water table at the southeast corner of Sanborn & Follet's brick building, on the southwest corner of Third and Water streets. It is 28.9 feet above zero of the gage, and 1,106.7 feet above mean sea level. The zero of the supplementary gage is 0.1 foot lower than that of the other.

Missouri Commission bench mark "A" is the center of outside edge of sill of false window in Sioux City court-house basement, on the west side, near the southwest corner. It is 84.0 feet above zero of the gage and 1,111.8 feet above mean sea level.

Graduations are expressed in feet above St. Louis Directrix and extend on the main gage from 663.6 to 685.6, or from 1.8 feet below to 20.2 feet above zero. On the supplementary gage they extend from 665.4 to 677.6, or from zero to 12.2 feet above. Highest water was 25 feet on May 18, 1892; lowest, -0.3 foot on December 4, 1882. Danger line is at 19 feet.

The Sioux City flood of May 18, 1892, came from the Floyd River when the Missouri was at a 17-foot stage, and continued but a few hours. It crested at 12.30 p. m.; by 7 p. m. the water had fallen 1 foot, and by 8 a. m., May 19, was back to 17 feet. Similar floods occurred in 1876 and 1881. The highest recorded Missouri River flood stage was 22.2 feet, on April 23, 1881.

SMITHS MILLS, SOUTH CAROLINA.

Smiths Mills, S. C., is on the Pedee River, 45 miles above its mouth.

The river gage is of 1 by 6 inch hard pine, painted white, with graduations in red and black paint. Gage is attached to central front wooden pier of the E. P. Smith wharf, and belongs to the Weather Bureau. Zero of gage is 25 feet below top of doorsill of house adjoining the wharf and 42 feet above mean sea level.

Graduation is from zero to 14 feet above. Highest water was 18.6 feet on February 16, 1899; lowest, -0.6 foot on September 16-18, 1897. Danger line is at 16 feet.

SPEERS FERRY, VIRGINIA.

Speers Ferry, Va., is on the Clinch River, 156 miles from its mouth, and 110 miles above Clinton, Tenn.

The river gage is on the north bank of the river, and is made of 4 by 12 inch heart pine. The bottom of the gage is bolted to an anchor buried in the ground; the top is bolted to an ash tree. It is painted, with graduations in copper tacks, and belongs to the Weather Bureau. Zero of the gage is about 1,209 feet above mean sea level.

Graduation is from 2 feet below to 33 feet above zero. Highest water was 23.2 feet on April 1, 1896; lowest, -1 foot on January 13 and 17, 1896. Danger line is at 20 feet.

STOYSTOWN, PENNSYLVANIA.

Stoystown, Pa., is on Stony Creek, 20 miles above Johnstown, Pa.

The river gage is painted on a stone bridge pier, and was erected by H. F. Berkehile.

Graduation is from 2 to 10 feet above zero. Highest water was 4 feet on April 10, 1895; lowest, -3 feet on various dates in October and November, 1895. Danger line is at 4 feet.

STRAWBERRY PLAINS, TENNESSEE.

Strawberry Plains, Tenn., is on the Holston River, 21 miles above its confluence with the French Broad. The distance to Knoxville, on the Tennessee, is 25 miles. The width of river at low water is 450 feet. The drainage area above the station is 3,400 square miles.

The river gage is on the east face of the second pier from the east end of the Southern Railway bridge. It consists of a groove cut into the stone, filled with cement, and graduated by painting. It belongs to the Weather Bureau. Zero of gage is 57.4 feet below bottom of rail on bridge.

Graduation is from 1 foot below to 35 feet above zero. Highest water was 34 feet on March 7, 1867; lowest, -1.5 feet on December 1, 5, and 8, 1895. Danger line is at 26 feet.

Station was discontinued on June 30, 1897.

STURDEVANT, ALABAMA.

Sturdevant, Ala., is on the Tallapoosa River, 69 miles from its mouth, and 34 miles above Tallassee, Ala. The width of river at low water is 525 feet. The drainage area above the station is 2,130 square miles.

The river gage is of pine planking, attached to a pile on the river bank. Gage is painted white, with black markings, and belongs to the Weather Bureau.

Graduation is from 0.4 foot below to 28 feet above zero. Highest water was 32 feet in March, 1886; lowest, -2.1 feet on November 3, 1893. Danger line is at 15 feet.

Station was discontinued February 28, 1899.

TALLASSEE, ALABAMA.

Tallassee, Ala., is on the Tallapoosa River, 35 miles above its confluence with the Coosa. The distance to Montgomery, on the Alabama, is 50 miles. The width of river at low water is 585 feet. The drainage area above the station is 3,460 square miles.

The river gage is of pine planking and is in three sections; the lowest is driven into bed of river, and the two upper are planted in the earth higher up on bank. Gage is painted white; graduation is cut into wood and painted black. It belongs to the Weather Bureau.

Graduation is from 3 feet below to 33 feet above zero. Highest water was 28 feet in 1886; lowest, -0.9 foot on November 22, 1891, and December 1-2, 1894. Danger line is at 28 feet.

TEHAMA, CALIFORNIA.

Tehama, Cal., is on the Sacramento River.

The river gage is a painted board fastened to a pier of the Southern Pacific Railroad bridge over the Sacramento River. It belongs to the United States Engineer Corps.

Zero of the gage is 29.4 feet below the base of the rail on the bridge.

TERRE HAUTE, INDIANA.

Terre Haute, Ind., is on the Wabash River, 165 miles from its mouth and 115 miles above Mount Carmel, Ill. The width of river at low water is 540 feet. The drainage area above the station is 11,200 square miles.

The river gage is in two sections, the lower extending from zero to 6 feet, and the upper from 6 to 30 feet. They are attached to piers of the Big Four Railroad bridge, are made of wood, painted, and belong to the Weather Bureau.

Bench mark of the waterworks, on top of cement curb of old pump house, is 28 feet above zero of the gage, and 475.3 feet above mean sea level. Big Four bench mark, letter "S" of the lettering "W and S," on the north side of the east abutment of the Big Four bridge, is 38.7 feet above zero of the gage, and 486 feet above mean sea level.

Graduation is from zero to 30 feet above. Highest water was 27.7 feet on February 18, 1883; lowest, -0.8 foot, on August 21-26, 1895. Danger line is at 16 feet.

Station was discontinued on June 30, 1897.

THE DALLES, OREGON.

The Dalles, Oreg., is on the Columbia River, 166 miles from its mouth and 47 miles above Cascade Locks, Oreg. The width of river at low water is 684 feet. The drainage area above the station is 240,000 square miles.

The river gage, which belongs to the Weather Bureau, is located on the incline of The Dalles, Portland and Astoria Navigation Company's dock at the foot of Court street. It is in four sections. The first is placed on a 5-pile "dolphin," about 10 feet from the river bank, and so located that running ice will not injure it; the second is placed on a pile which is a part of the incline, and is 12 feet in length; the third is likewise placed on a pile at the 20-foot reading; the fourth is on the east or upper side of the pier at the 30-foot level. The sections are made of 2 by 8 inch fir planks, and have black graduations on a white ground. Wire nails are also driven into the structure so as to retain the permanent level in case of injury or removal of the gage. The gage is vertical. Zero of gage is 45.3 feet above mean sea level, as determined by the United States Geological Survey in 1899.

Graduation extends from zero to 40 feet above. Highest water was 59.6 feet on June 6, 1894; lowest, -0.9 foot on January 31, 1893. Danger line is at 40 feet.

TOWANDA, PENNSYLVANIA.

Towanda, Pa., is on the Susquehanna River, 253 miles from its mouth and 75 miles above Wilkesbarre, Pa. The drainage area above the station is 8,000 square miles.

The river gage, made of iron, 1 foot wide and one-half inch thick, is on the east side of the road bridge, securely bolted to the masonry of the pier. It belongs to the Weather Bureau. Top of rail at the Lehigh Valley Railroad depot is 106.3 feet above zero of the gage and 740 feet above mean sea level.

Graduation extends from zero to 25 feet above. Highest water was 29 feet in March, 1869; lowest, -0.1 foot in October, 1895. Danger line is at 16 feet.

TROUT RUN, PENNSYLVANIA.

Trout Run, Pa., is on Lycoming Creek, about 15 miles above Williamsport, Pa.

The river gage is attached to stone abutment of steel highway bridge over Lycoming Creek. It is made of 1 by 10 inch timber and is fastened to wedges driven in between the stones of the abutment. Markings consist of black lines on a white ground and are in feet only. The gage belongs to the Northern Central Railway.

Bench mark on north abutment, west corner, of N. C. R. bridge No. 8, is 577.7 feet above mean sea level, and 12.2 feet above zero of the gage.

Graduation extends from zero to 13 feet.

TUSCALOOSA, ALABAMA.

Tuscaloosa, Ala., is on the Black Warrior River, 129 miles above the junction of the Black Warrior with the Tombigbee at Demopolis, Ala. The width of river at low water is 351 feet. The drainage area above the station is 4,900 square miles.

The river gage is of 2-inch pine planking, secured to the river bank. Markings are shown by copper tacks and notches cut into the wood. The gage belongs to the United States Engineer Corps. Top of rail in Cincinnati, New Orleans and Texas Pacific Railroad depot is 89.4 feet above zero of the gage and 176.8 feet above mean sea level.

Graduation is from zero to 60 feet above. Highest water was 63.2 feet on April 8, 1892; lowest, -1.9 feet on October 6, 9-21, 1897. Danger line is at 43 feet.

UMATILLA, OREGON.

Umatilla, Oreg., is on the Columbia River, 270 miles from its mouth and 104 miles above The Dalles, Oreg. Approximate width of river is 1,650 feet. The drainage area above the station is 215,500 square miles.

The river gage is in two sections, an incline 140 feet, and a vertical section 27 feet in length. The incline is on the river bank at foot of F street, and gives readings from zero to 16 feet above. The vertical section is attached to a pier of the Oregon Railway and Navigation Company's bridge, which spans a slough some 300 yards back from the main channel, and gives readings from 10 to 37 feet above zero. Markings are in iron tacks. The gage belongs to the Weather Bureau, and its zero is low water of 1874. The top of rail in the Oregon Railway and Navigation Company's depot is 20 feet above zero of the gage and 297 feet above mean sea level.

Graduation is from zero to 37 feet above. Highest water was 34.5 feet on June 5, 1894; lowest, -0.7 foot on March 31, 1898. Danger line is at 25 feet.

UPPER MUSCLE SHOALS, ALABAMA.

Upper Muscle Shoals, Ala., is on the Tennessee River, 251 miles from the mouth of the river and 25 miles above Lower Muscle Shoals, Ala.

The river gage is attached to a pier located on the longitudinal dam separating the canal from the river, opposite Miltons Bluff, Ala. Originally a single gage of 6 by 6 inch timber was used, but it was found to be impossible to obtain correct readings when the water was running over the dam. A wooden frame was therefore attached to the gage, and a supplementary gage of seven-eighths by 2½ inch timber fastened to the frame 8 feet beyond the dam. Both are graduated alike with markings cut into the wood and painted black, and either may be read at low water. They belong to the United States Engineer Corps.

P. B. M. 43 is on the gage pier of canal wall or dam opposite Miltons Bluff, and 1.2 miles above lock "A." It is on the east side, 2.5 feet above top of wall of dam, in top of large center stone, being top of copper bolt leaded vertically. Elevation above zero of gage, 10.5 feet; above mean sea level, 533.3 feet.

Graduation extends from zero to 12.3 feet above.

VICKSBURG, MISSISSIPPI.

Vicksburg, Miss., is on the Mississippi River, 474 miles from its mouth and 266 miles above Donaldsonville, La. The distance to New Orleans is 366 miles. The river at low water is 2,400 feet in width. The drainage area above the station is 1,136,700 square miles.

The river gage, belonging to the Engineer Corps, is located at Kleinston, just below the city. It is of the vertical type, built in five sections. These sections are attached to the piling of the railway incline, and were built in August, 1890. Gage is made of hard pine, and the markings are burnt into the wood.

Bench mark, 141, is top of marking stone at Kleinston. It is 361 feet from river bank, 295 feet east of sawmill, 184 feet east of narrow-gage railroad, 197 feet north of railroad running down to cotton sheds, and on line of broken levee extending back to high ground. It is 5,135 feet above oil mill and 3,865 feet below compress. Elevation above zero of gage is 42.3 feet; above mean sea level, 87.1 feet.

B. M. B (Ewens, 1898) is a cross on lower granite capstone of the lower end of west pier of trestle of the Alabama and Vicksburg Railroad Company, near Kleinston. Trestle is over the main roadway to Kleinston, and on the spur track leading to furniture factory. Elevation above zero of the gage, 45.7 feet; above mean sea level, 90.5 feet.

Graduation is from 7 feet below to 51 feet above zero. Highest water was 52.3 feet on April 16, 1897; lowest, -6.3 feet on November 13-14, 1895. Danger line is at 45 feet.

WARREN, PENNSYLVANIA.

Warren, Pa., is on the Allegheny River, at the junction of Conewango Creek, 54 miles above Oil City and 177 miles from the mouth of the river. The river is 450 feet wide. The drainage area above the station is 3,060 square miles. Conewango Creek drains an area of about 960 square miles, including Chautauqua Lake.

The river gage is located on the southwest corner of the north stone abutment of the suspension bridge over the Allegheny River. Abutment is at the foot of Bridge street. Gage is made of 2 by 12 inch plank, is spiked to the abutment, and has black graduations on a white ground. It belongs to the United States Engineer Corps.

Top of rail in depot of Pennsylvania Railroad is 52 feet above zero of the gage and 1,189 feet above mean sea level.

Graduation is from 1 foot below to 17.6 feet above zero. Highest water was 17.4 feet in March, 1865; lowest, -0.8 foot on August 28, 1893. Danger line is at 14 feet.

Station was discontinued on June 30, 1897, and reopened on October 1, 1899.

WARSAW, ILLINOIS.

Warsaw, Ill., is on the Mississippi River, 1,458 miles from its mouth and 56 miles above Hannibal, Mo. The river is 3,720 feet wide at low water. The drainage area above the station is 126,700 square miles.

The river gage is on the north side of the Keokuk Packet depot. It consists of two sections. The lower section is an incline of 6 by 6 inch cedar timber, extending from 2 feet below to 11 feet above zero. Graduation is cut into an iron strap, which is fastened on upper face of timber. The upper section, 14 feet in length, is of 2 by 4 inch cedar, and is located at the Toledo, Peoria and Warsaw Railroad tracks. Markings are made by copper tacks and brass figures. Gage belongs to the Weather Bureau.

Bench mark, a cross cut in the top surface of stone sill of blind window near the north end of west face of J. W. Barnes's brick warehouse, is 25.9 feet above zero of gage and 499.9 feet above mean sea level.

Graduation is from 2 feet below to 25 feet above zero. Highest water was 22.1 feet, on May 18, 1888; lowest, 0.0, date unknown. Danger line is at 18 feet.

Station was discontinued on June 30, 1899.

WASHINGTON, DISTRICT OF COLUMBIA.

Washington, D. C., is on the Potomac River, 110 miles above its mouth. The river is 2,380 feet wide at Long Bridge. The drainage area above the station is 11,600 square miles.

The river gage is of the standard brass Weather Bureau pattern. It is attached to the north wall of an angle in the stone dock of the Washington Gas Company, at Twenty-seventh and G streets NW., and was erected in 1899.

Bench mark, spike in dock on which gage is placed, is a few inches south of head of gage. It is 9.1 feet above zero of the gage, which is mean low tide of the Potomac River, and 7.9 feet above mean sea level. Bench mark on west end of doorsill of gas office, northeast corner of Twenty-sixth and G streets NW., is 34.4 feet above zero of the gage and 33.2 feet above mean sea level. City directrix is 33.9 feet above mean sea level.

Comparison can most readily be had with other gages in the District by referring to height above mean low tide, which is the zero point of all.

Graduation is from 0.5 foot to 8.7 feet above zero. Highest water known, that of June 2, 1889, 10 a. m., at the sewer canal, foot of Seventeenth street, was 13.3 feet. The water remained within 3 feet of the highest stage for twenty-four hours, and reached to the store doors on the north side of Pennsylvania avenue, between Ninth and Tenth streets. At Long Bridge the stage of water was 12.7 feet, at Aqueduct Bridge, 19.5 feet; and at Chain Bridge, 43.3 feet. Danger line is at 6 feet.

WATERFORD, CALIFORNIA.

Waterford, Cal., is on the Toulumne River.

The river gage is a plank with brass markings, and is attached to the central stone and wood pier of the Southern Pacific Railroad bridge over the Toulumne River. It belongs to the Weather Bureau.

Railroad track is 95 feet above zero of the gage and 168 feet above mean sea level. Bench mark, the center of the north end of cap of pier, is 90 feet above zero of gage and 163 feet above mean sea level.

Zero of the gage is low-water mark, and danger line is at 16 feet.

WEBBERS FALLS, INDIAN TERRITORY.

Webbers Falls, Ind. T., is on the Arkansas River, 413 miles from its mouth, and 62 miles above Fort Smith, Ark.

The river gage, which belongs to the Weather Bureau, is located at the rear of Blackstone & Ellington's store. It is made of 3 by 10 inch planking with a 2-inch iron strap on the top, and is in two sections. One, an incline from 1 to 15 feet, is bolted to timbers which are driven into the bank; the other is a vertical section and is bolted to boards which are spiked to a tree. Markings are in copper tacks. A nail driven in the side of Gibson's store, 6 inches from the east corner and 7 inches above the foundation, is 35.2 feet above zero of the gage.

Graduation is from zero to 30 feet above. Highest water of record was 24.8 feet on May 8, 1899; lowest, 1.3 feet on October 13-15, 19-25, 1899. Danger line is at 23 feet.

WEISER, IDAHO.

Weiser, Idaho, is on the Snake River. The drainage area above the station is 1,670 square miles.

The river gage, which belongs to the Weather Bureau, is located in a slough of Snake River, 300 feet from the river and 600 feet due south of the Union Pacific Railroad station. It is attached to a pile, and consists of 2-inch Oregon pine with black markings on a white ground. Top of rail in front of Union Pacific Railroad station is 2,128 feet above mean sea level and about 20 feet above zero of the gage.

Graduation is from 4 to 24 feet above zero. Highest water was 26.5 feet on June 5, 1894; lowest, 0.0, on October 31, 1894. Danger line is at 10 feet.

WELDON, NORTH CAROLINA.

Weldon, N. C., is on the Roanoke River, 90 miles above Albemarle Sound. The width of river at low water is 450 feet. The drainage area above the station is 8,180 square miles.

The new river gage, which belongs to the Weather Bureau, is located on the Seaboard Air Line bridge over the Roanoke River. It is a wire cable gage, and graduations are painted on

the west end of the guard rail. Top of rail at Seaboard Air Line depot is 77 feet above mean sea level, and 36.5 feet above zero of the gage. Zero of new gage, readings on which began April 1, 1899, is 13.5 feet lower than that of the old one below the bridge.

Graduation is from zero to 55 feet above. Highest water was 60.3 feet on November 26, 1877; lowest, 6.9 feet on December 31, 1899. Danger line is at 40 feet.

The above readings have been reduced to the new zero elevation.

WENATCHEE, WASHINGTON.

Wenatchee, Wash., is on the Columbia River, at the mouth of the Wenatchee.

The river gage is in six sections. The first (—8 to 25 feet) is an incline 120 feet in length; the remaining five are vertical and are 75 feet apart. The incline is buried in sand and rocks, while the vertical sections are attached to "dead men" imbedded in sand and rocks. The gage is made of 2 by 12-inch fir planks, is painted white, and marked with iron tacks. Top of rail at Great Northern Railroad depot is 58 feet above zero of the gage and 636 feet above mean sea level.

Graduation is from 8 feet below to 57 feet above zero. Highest water was 54 feet on June 7, 1894; lowest, 0.0 on January 14, 1891. Danger line is at 40 feet.

WEST NEWTON, PENNSYLVANIA.

West Newton, Pa., is on the Youghiogheny River, 15 miles above its junction with the Monongahela. The distance to Pittsburg, at the mouth of the Monongahela, is 31 miles. The width of river at low water is 150 feet. The drainage area above the station is 1,550 square miles.

The river gage is on the west side of river at the end of bridge. It is constructed of wood with an iron strap on its face, into which the graduation is cut. The lower 18 feet of gage is inclined at an angle of 45° to the abutment; the upper part is vertical. Top of rail at Baltimore and Ohio Railroad depot is 36.5 feet above zero of the gage and 783 feet above mean sea level.

Graduation is from 1 foot below to 23 feet above zero. Highest water was 22 feet on February 23, 1897; lowest, —0.3 foot on September 14, 1892. Danger line is at 23 feet.

WESTON, WEST VIRGINIA.

Weston, W. Va., is on the west fork of the Monongahela River, 39 miles above its confluence with the Tygarts Valley River. The distance to Fairmont, on the Monongahela, is 42 miles. The width of river is 69 feet. The drainage area above the station is 140 square miles.

The river gage is painted on the abutment of the county bridge leading from Second street to the depot. It has white graduations on a black ground and belongs to the Weather Bureau.

Top of rail in the Weston depot is 27 feet above zero of the gage and 918 feet above mean sea level. Top of abutment on which gage is located is 25.4 feet above zero of the gage and 916.4 feet above mean sea level.

Graduation is from zero to 23 feet above. Highest water was 21 feet on October 13, 1890; lowest, —4 feet in November and December, 1891. Danger line is at 18 feet.

WESTPOINT, GEORGIA.

Westpoint, Ga., is on the Chattahoochee River, 239 miles from its mouth, and 149 miles above Eufaula, Ala. The drainage area above the station is 3,300 square miles.

The river gage is of the wire cable pattern and belongs to the United States Geological Survey. It is located on the Montgomery street highway bridge on the downstream side. The graduation rod is heart pine with markings in brass figures and copper tacks.

The top of the brick pier at the west end of the bridge, on the downstream side, is 24 feet above zero of the gage and 579.2 feet above mean sea level. The top of the railroad track at the west end of the Atlanta and Westpoint bridge is 30 feet above zero of the gage and 585.2 feet above mean sea level.

Graduation extends from zero to 30 feet above. Highest water was 25.6 feet in 1886; lowest, 0.8 foot on September 12-13, 16-21, 1896. Danger line is at 20 feet.

WETUMPKA, ALABAMA.

Wetumpka, Ala., is on the Coosa River, 6 miles above its confluence with the Tallapoosa. The distance to Montgomery, Ala., on the Alabama River, is 21 miles.

The river gage was erected and is maintained by the United States Engineer Corps. It is of 2 by 8 inch pine planking, made in three sections. The lowest section (-8 to 27 feet) is on wall of lock No. 31; the second section (27 to 40 feet) is attached to a tree on the bank; the upper section (40 to 58 feet) is also attached to a tree. Markings are cut into the wood and are painted white on a black ground. Top of rail at the Louisville and Nashville Railroad depot is 12.6 feet above zero of the gage and 185 feet above mean sea level.

Graduation is from 8 feet below to 58 feet above zero. Highest water was 61.7 feet on April 1, 1886; lowest, -0.6 foot on September 21, 1896, and October 10, 11, 13, 1897. Danger line is at 45 feet.

WHEELING, WEST VIRGINIA.

Wheeling, W. Va., is on the Ohio River, 875 miles from its mouth, and 90 miles above Parkersburg, W. Va. The river is 600 feet wide. The drainage area above the station is 22,600 square miles.

The river gage is on the levee, 330 feet north of Twelfth street. It is made of sandstone set flush with surface of levee, and is marked in feet and quarters. Gage belongs to the city.

Bench mark is the high water of February 7, 1884, cut in the stone bottom of the ogee on the top of water table on southwest corner of custom-house, corner of Sixteenth and Market streets. Its elevation is 53.1 feet above zero of gage and 664.7 feet above mean sea level.

Graduation is from 3 to 41 feet above zero. Highest water on the gage was 46.5 feet on February 7, 1884; lowest, -0.3 foot on August 27-28, 1893. Danger line is at 36 feet.

WHITESBURG, GEORGIA.

Whitesburg, Ga., is on the Chattahoochee River, 220 miles from its mouth, and 80 miles above Columbus, Ga. The drainage area above the station is 2,000 square miles.

The river gage is in two sections; the first, from -0.3 foot to 17.1 feet, is fastened to pile of "falsework" near west bank of stream; the second, from 17.1 to 30.5 feet, is fastened to trestle bent on west bank of stream. Duplicate gage, reading from -2.0 to 9.0 feet, is fastened to willow tree and stake at edge of west bank, about 50 feet upstream from bridge. Gages belong to the Weather Bureau. The level of tops of capstones of masonry of bridge piers is 51 feet above zero of gage. On the west face, near north corner of pier on west bank and about 6 feet from the ground, is a drill-point mark, about a half inch deep in the stone, which is at a level of 19.3 feet on the gage.

Graduation is from 0.3 foot below to 30.5 feet above zero. Highest water was 16.9 feet on March 16, 1895; lowest, 0.2 foot on August 29, 1893, and March 18-21 and 30, 1898. Danger line is at 15 feet.

Station was discontinued January 31, 1899.

WICHITA, KANSAS.

Wichita, Kans., is on the Arkansas River, 726 miles from its mouth and 313 miles above Webbers Falls, Ind. T.

The river gage is attached to the east side of the second pier from the east end of the Douglas Avenue bridge. It is made of wood, painted white, with markings in brass figures and black paint. It is owned by the city of Wichita. Top of rail at the Douglas Avenue crossing of the Atchison, Topeka and Santa Fe Railroad is 1,293 feet above mean sea level, and about 8 feet above zero of the gage.

Graduation is from zero to 13 feet above. Highest water of record was 6.3 feet on June 10, 1899; lowest, -0.6 foot on July 13-14, 1897. Danger line is at 10 feet.

WILKESBARRE, PENNSYLVANIA.

Wilkesbarre, Pa., is on the Susquehanna River, 178 miles from its mouth, and 33 miles above East Bloomsburg, Pa. The width of the river at low water is 730 feet. The drainage area above the station is 11,600 square miles.

The river gage is located on east side of first pier of bridge over the Susquehanna River at Market street. The pier is of stone, about 300 feet from the bank. The gage is of the standard brass Weather Bureau pattern, the two lower sections of which, however, are now missing, readings being obtained from figures painted directly on the pier. Along the brass portion even feet are indicated by white figures painted on the black background of the pier.

Zero of gage is 535 feet above mean sea level; top of rail in New Jersey Central Railroad depot is 541 feet above mean sea level, and that at the Lehigh Valley Railroad depot 545 feet above.

Graduation extends from zero to 28 feet above. Highest water was 24.7 feet on March 17, 1865; lowest, -3.0 feet in August, September, and October, 1896. Danger line is at 14 feet, at which stage the west bank of the river becomes flooded in places.

WILLIAMSPORT, PENNSYLVANIA.

Williamsport, Pa., is on the West Branch of the Susquehanna River, 35 miles above its junction with the Susquehanna. The distance to Selinsgrove, Pa., on the Susquehanna, is 45 miles.

The river gage, belonging to the railroad company, is painted on the bridge pier and is graduated to feet and half feet. Top of rail in Pennsylvania Railroad depot is 27.6 feet above zero of the gage, and 524 feet above mean sea level.

Graduation is from 7.5 to 28 feet above zero. Highest water was 32.4 feet on June 1, 1889; lowest, -0.2 foot on July 27, September 24-26, and October 31, 1895. Danger line is at 20 feet.

WILSONVILLE, ALABAMA.

Wilsonville, Ala., is on the Coosa River, 66 miles from its mouth and 60 miles above Wetumpka, Ala. The width of river at low water is 850 feet. The drainage area above the station is 7,960 square miles.

The river gage is made of pine plank and is attached to abutment of Southern Railroad bridge. It is painted white, with graduation in black, and belongs to the United States Engineer Corps.

Bench mark, on southeast corner of coping of abutment of bridge, is 31.8 feet above zero of gage, and 452.1 feet above mean sea level.

Graduation is from 2 feet below to 26 feet above zero. Highest water was 24 feet in 1883; lowest, 1.7 feet on October 20-28, 1891. Danger line is at 15 feet.

Station was discontinued March 31, 1899.

YAZOO CITY, MISSISSIPPI.

Yazoo City, Miss., is on the Yazoo River, 80 miles above Vicksburg, Miss., which is a short distance below the mouth of the Yazoo. The river is 200 feet wide. The drainage area above the station is 8,580 square miles.

The river gage belongs to the Engineer Corps. It is in three sections and is of 2 by 4 inch cypress, markings being by iron tacks. The lowest section (—3.0 to 4.5 feet) is on protecting work of iron bridge; the second (4.5 to 18.5 feet) is on piling that protects bridge pier; the third is on post under approach to bridge.

P. B. M. 12, Yazoo City, is a copper bolt in stone under ground, surmounted by an iron pipe and cap, in the north corner of the county court-house yard. It is 44.1 feet above zero of the gage, and 116.2 feet above mean sea level.

P. B. M. 13, Yazoo City, is a copper bolt in a stone under ground, surmounted by an iron pipe and cap, in north corner of public school yard, near Washington and Main streets. It is 29.2 feet above zero of the gage, and 101.3 feet above mean sea level.

Graduation is from 3 feet below to 32.3 feet above zero. Highest water was 36.5 feet in 1882; lowest, —2.8 feet, on October 15–17 and 20–22, 1896. Danger line is at 25 feet.

ZANESVILLE, OHIO.

Zanesville, Ohio, is on the Muskingum River, 70 miles above Marietta, Ohio, at its mouth. The river is 450 feet wide. The drainage area above the station is 6,230 square miles.

The river gage, which belongs to the United States Engineer Corps, is on the lower buttress of the land wall of Lock No. 10. It is made of cast iron, and is bolted to the wall. Markings are cast on the face of the gage and painted.

Bench mark is on the coping of the land wall of Lock No. 10, at the heel of the middle gates. It is 34 feet above zero of the gage and 699.9 feet above mean sea level.

Graduation is from zero to 24 feet above. Highest water was 35.9 feet on March 24, 1898; lowest, 4.3 feet on October 14, 20, and 21, 1895. Danger line is at 20 feet.

Station was discontinued on December 20, 1895, and reopened July 1, 1897.

ELEVATIONS OF ZEROS OF GAGES ABOVE MEAN SEA LEVEL (FEET).

Station.	Elevation.	Station.	Elevation.
Albany, Ga.....	141.8	Des Moines, Iowa.....	783.0
Albany, N. Y.....	0.2	Donaldsonville, La.....	¹ 1.8
Albany, Oreg.....	200.3	Driftwood, Pa.....	796.4
Alexandria, La.....	43.2	Dublin, Ga.....	583.3
Arkansas City, Ark.....	55.2	Dubuque, Iowa.....	583.3
Arlington (Jerome), Mo.....	660.7	East Bloomsburg, Pa.....	127.0
Arthur City, Tex.....	¹ 362.0	Edisto, S. C.....	65.0
Augusta, Ga.....	100.4	Effingham, S. C.....	730.0
Bagnell, Mo.....	¹ 557.0	Elwood Junction, Pa.....	61.2
Beardstown, Ill.....	423.0	Eufaula, Ala.....	428.0
Beaver Dam, Pa.....	1,616.8	Eugene, Oreg.....	332.5
Bismarck, N. Dak.....	540.0	Evansville, Ind.....	59.0
Boonville, Mo.....	592.9	Fair Bluff, N. C.....	840.0
Bridgeport, Ala.....	1,173.0	Fairmont, W. Va.....	512.2
Brookville, Pa.....	781.0	Falmouth, Ky.....	110.0
Buchanan, Va.....	¹ 589.0	Farrandsville, Pa.....	¹ 396.7
Burnside, Ky.....	269.6	Fayetteville, N. C.....	100.0
Cairo, Ill.....	354.5	Florence, Ala.....	378.8
Calhoun Falls, S. C.....	70.1	Folsom City, Cal.....	464.8
Camden, Ark.....	175.0	Fort Smith, Ark.....	741.0
Camden, S. C.....	941.8	Frankfort, Ky.....	223.5
Cameron, Pa.....	¹ 881.0	Freeport, Pa.....	473.7
Canton, Ga.....	384.5	Fulton, Ark.....	495.6
Carlton, Ga.....	¹ 443.0	Gadsden, Ala.....	402.7
Carthage, Tenn.....	90.0	Galland, Iowa.....	768.0
Cascade Locks, Oreg.....	484.2	Grafton, Ill.....	86.8
Catlettsburg, Ky.....	798.0	Greensboro, Pa.....	448.3
Cedar Run, Pa.....	686.2	Greensville, Miss.....	235.5
Charleston, Tenn.....	554.4	Hannibal, Mo.....	300.1
Charleston, W. Va.....	630.6	Harpers Ferry, W. Va.....	140.7
Chattanooga, Tenn.....	50.0	Harrisburg, Pa.....	480.9
Cheraw, S. C.....	340.0	Helena, Ark.....	¹ 338.5
Chester, Ill.....	424.5	Hermann, Mo.....	597.4
Cincinnati, Ohio.....	1,052.0	Hinton, W. Va.....	491.4
Claiborne, Ala.....	782.3	Huntingdon, Pa.....	322.0
Clarion, Pa.....	233.4	Huntington, W. Va.....	¹ 147.8
Clarksville, Va.....	519.4	Johnsonville, Tenn.....	716.0
Clinton, Tenn.....	176.2	Johnstown, Pa.....	833.9
Columbia, S. C.....	135.7	Kansas City, Mo.....	688.8
Columbia, Tenn.....	693.3	Karthauss, Pa.....	476.7
Columbia, Va.....	1,324.0	Keating, Pa.....	712.8
Columbus, Ga.....	25.0	Keokuk, Iowa.....	37.0
Columbus, Miss.....	¹ 324.0	Kingston, Tenn.....	804.3
Columbus, Ohio.....	95.4	Kingstree, S. C.....	642.2
Colusa, Cal.....	379.3	Knoxville, Tenn.....	561.8
Confluence, Pa.....	724.0	La Crosse, Wis.....	¹ 720.0
Conway, S. C.....	49.4	Le Claire, Iowa.....	221.6
Cordova, Ala.....	28.2	Lewiston, Idaho.....	555.7
Coushatta, La.....		Little Rock, Ark.....	¹ 477.3
Danville, Va.....		Lock No. 4, Ala.....	719.0
Dardanelle, Ark.....		Lock No. 4, Pa.....	
Davenport, Iowa.....		Loudon, Tenn.....	
Davis Island Dam, Pa.....		Louisa, Ky.....	513.4
Dayton, Ohio.....		Louisiana, Mo.....	436.2
Delhi, La.....		Louisville, Ky.....	404.3
Demopolis, Ala.....			

¹ About.

² Below.

ELEVATIONS OF ZEROS OF GAGES.

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Station.	Eleva- tion.	Station.	Eleva- tion.
Lower Muscle Shoals, Ala.....	418.4	Rowlesburg, W. Va.....	1,375.3
Lynchburg, Va.....	494.7	Sacramento, Cal.....	2.0
Macon, Ga.....	277.1	St. Joseph, Mo.....	797.8
Madison, Ind.....	399.2	St. Louis, Mo.....	379.0
Marietta, Ohio.....	582.0	St. Paul, Minn.....	683.3
Marysville, Cal.....	23.3	St. Stephens, S. C.....	42.0
Melville, La.....	¹ 1.1	Salem, Oreg.....	¹ 115.0
Memphis, Tenn.....	182.7	San Andreas, Cal.....	.....
Mifflin, Pa.....	408.8	San Joaquin Bridge, Cal.....	.....
Monroe, La.....	29.9	Selinsgrove, Pa.....	.....
Montgomery, Ala.....	103.7	Selma, Ala.....	61.3
Morgantown, W. Va.....	788.4	Shreveport, La.....	140.0
Mount Carmel, Ill.....	376.6	Sinnamahoning, Pa.....	767.6
Mount Vernon, Ind.....	314.0	Sioux City, Iowa.....	1,077.8
Muscatine, Iowa.....	529.4	Smiths Mills, S. C.....	42.0
Nashville, Tenn.....	314.6	Speers Ferry, Va.....	¹ 1,209.0
New Orleans, La.....	² 2.5	Stoystown, Pa.....	.....
Newport, Ark.....	198.1	Strawberry Plains, Tenn.....	.....
Nisbet, Pa.....	525.5	Sturdevant, Ala.....	.....
North McGregor, Iowa.....	604.1	Tallassee, Ala.....	.....
Northport, Wash.....	¹ 1,341.7	Tehama, Cal.....	.....
Oakdale, Ga.....	753.5	Terre Haute, Ind.....	447.3
Oil City, Pa.....	980.0	The Dalles, Oreg.....	45.3
Omaha, Nebr.....	958.5	Towanda, Pa.....	633.7
Oroville, Cal.....	139.8	Trout Run, Pa.....	565.5
Paducah, Ky.....	279.2	Tuscaloosa, Ala.....	87.4
Parker, Pa.....	849.4	Umatilla, Oreg.....	277.0
Parkersburg, W. Va.....	564.0	Upper Muscle Shoals, Ala.....	522.8
Peoria, Ill.....	433.4	Vicksburg, Miss.....	44.8
Philippi, W. Va.....	¹ 1,320.0	Warren, Pa.....	¹ 1,137.0
Pierre, S. Dak.....	¹ 1,415.6	Warsaw, Ill.....	474.0
Pittsburg, Pa.....	697.0	Washington, D. C.....	² 1.2
Plattsmouth, Nebr.....	941.1	Waterford, Cal.....	73.0
Point Pleasant, W. Va.....	510.2	Webbers Falls, Ind. T.....	.....
Portland, Oreg.....	4.5	Weiser, Idaho.....	¹ 2,108.0
Portsmouth, Ohio.....	472.7	Weldon, N. C.....	40.5
Radford, Va.....	¹ 1,716.0	Wenatchee, Wash.....	577.5
Red Bluff, Cal.....	243.0	West Newton, Pa.....	746.5
Redding, Cal.....	¹ 452.0	Weston, W. Va.....	891.0
Red Wing, Minn.....	664.2	Westpoint, Ga.....	555.2
Reeds Landing, Minn.....	663.3	Wetumpka, Ala.....	172.4
Renovo, Pa.....	637.4	Wheeling, W. Va.....	611.6
Resaca, Ga.....	617.3	Whitesburg, Ga.....	.....
Reynolds, Ga.....	.....	Wichita, Kans.....	¹ 1,285.0
Richmond, Va.....	2.8	Wilkesbarre, Pa.....	535.0
Riverton, Ala.....	359.6	Williamsport, Pa.....	496.4
Riverton, Va.....	450.0	Wilsonville, Ala.....	420.3
Rockwood, Tenn.....	¹ 699.7	Yazoo City, Miss.....	72.1
Rome, Ga.....	575.8	Zanesville, Ohio.....	665.9

¹ About.² Below.

TABLE OF DANGER-LINE STAGES (FEET).

Station.	Stage.	Station.	Stage.
Albany, Ga	20	Demopolis, Ala.....	35
Albany, N. Y.		Derry Station, Pa	4
Albany, Oreg	20	Des Moines, Iowa	19
Alexandria, La	33	Donaldsonville, La	
Arkansas City, Ark.....	42	Driftwood, Pa.....	18
Arlington, Mo.....	16	Dublin, Ga	30
Arthur City, Tex	27	Dubuque, Iowa.....	15
Augusta, Ga	32	East Bloomsburg, Pa	29
Bagnell, Mo.....	28	Edisto, S. C	6
Beardstown, Ill	12	Effingham, S. C	12
Beaver Dam, Pa.....	27	Ellwood Junction, Pa.....	14
Bismarck, N. Dak	14	Eufaula, Ala	40
Boonville, Mo.....	20	Eugene, Oreg	10
Bridgeport, Ala	24	Evansville, Ind	35
Brookville, Pa	8	Fair Bluff, N. C	6
Buchanan, Va.....	12	Fairmont, W. Va	25
Burnside, Ky	50	Falmouth, Ky	25
Cairo, Ill	45	Farrandsville, Pa.....	19
Calhoun Falls, S. C		Fayetteville, N. C	38
Camden, Ark	39	Florence, Ala	16
Camden, S. C	24	Folsom City, Cal	35
Cameron, Pa	10	Fort Smith, Ark	22
Canton, Ga	20	Frankfort, Ky	31
Carlton, Ga		Freeport, Pa	20
Carthage, Tenn	40	Fulton, Ark	28
Cascade Locks, Oreg		Gadsden, Ala	18
Catlettsburg, Ky	50	Galland, Iowa	8
Cedar Run, Pa	13	Grafton, Ill	23
Charleston, Tenn	22	Greensboro, Pa.....	18
Charleston, W. Va	30	Greenville, Miss	42
Chattanooga, Tenn	33	Hannibal, Mo.....	13
Cheraw, S. C	27	Harpers Ferry, W. Va	16
Chester, Ill	30	Harrisburg, Pa	17
Cincinnati, Ohio	50	Helena, Ark	42
Claiborne, Ala	25	Hermann, Mo.....	24
Clarion, Pa	10	Herrs Island Dam, Pa	22
Clarksville, Va	12	Hinton, W. Va	14
Clinton, Tenn	25	Huntingdon, Pa	24
Columbia, S. C	15	Huntington, W. Va	50
Columbia, Tenn	28	Irwin, Pa.....	6
Columbia, Va	18	Johnsonville, Tenn	21
Columbus, Ga.....	20	Johnstown, Pa	7
Columbus, Miss	33	Kansas City, Mo	21
Columbus, Ohio	17	Karthauss, Pa.....	10
Colusa, Cal	25	Keating, Pa.....	32
Confluence, Pa	10	Keokuk, Iowa	15
Conway, S. C	7	Kingston, Tenn	25
Cordova, Ala	20	Kingstree, S. C	12
Coushatta, La	30	Knoxville, Tenn	29
Danville, Va	8	La Crosse, Wis	12
Dardanelle, Ark	21	Leclaire, Iowa.....	10
Davenport, Iowa	15	Lewiston, Idaho.....	24
Davis Island Dam, Pa	25	Little Rock, Ark	22
Dayton, Ohio	18	Lockhaven, Pa	31
Delhi, La	20	Lock No. 4, Ala	17

Station.	Stage.	Station.	Stage.
Lock No. 4, Pa	28	Riverton, Va	22
Loudon, Tenn	25	Rockwood, Tenn	20
Louisa, Ky	20	Rome, Ga	30
Louisiana, Mo	12	Rowlesburg, W. Va	14
Louisville, Ky	28	Sacramento, Cal	29
Lynchburg, Va	18	St. Joseph, Mo	10
Macon, Ga	20	St. Louis, Mo	30
Madison, Ind	46	St. Paul, Minn	14
Marietta, Ohio	25	St. Stephens, S. C	12
Marysville, Cal	19	Salem, Oreg	20
Melville, La	31	San Andreas, Cal	20
Memphis, Tenn	33	San Joaquin Bridge, Cal	15
Mifflin, Pa	27	Selins Grove, Pa	8
Monroe, La	40	Selma, Ala	35
Montgomery, Ala	35	Shreveport, La	29
Morgantown, W. Va	20	Sinnamahoning, Pa	25
Mount Carmel, Ill	15	Sioux City, Iowa	19
Mount Vernon, Ind	35	Smiths Mills, S. C	16
Muscatine, Iowa	16	Speers Ferry, Va	20
Nashville, Tenn	40	Stoystown, Pa	4
New Orleans, La	16	Strawberry Plains, Tenn	26
Newport, Ark	26	Sturdevant, Ala	15
Nisbet, Pa	26	Tallassee, Ala	28
North McGregor, Iowa	18	Terre Haute, Ind	16
Northport, Wash	50	The Dalles, Oreg	40
Oakdale, Ga	13	Towanda, Pa	16
Oil City, Pa	13	Trout Run, Pa	8
Omaha, Nebr	18	Tuscaloosa, Ala	43
Oroville, Cal	25	Umatilla, Oreg	25
Paducah, Ky	40	Vicksburg, Miss	45
Parker, Pa	20	Warren, Pa	14
Parkersburg, W. Va	36	Warsaw, Ill	18
Peoria, Ill	14	Washington, D. C	6
Philippi, W. Va	10	Waterford, Cal	16
Pierre, S. Dak	14	Webbers Falls, Ind. T	23
Pittsburg, Pa	22	Weiser, Idaho	10
Plattsmouth, Nebr	17	Weldon, N. C	40
Point Pleasant, W. Va	39	Wenatchee, Wash	40
Portland, Oreg	15	West Newton, Pa	23
Portsmouth, Ohio	50	Weston, W. Va	18
Radford, Va	14	West Point, Ga	20
Red Bluff, Cal	23	Wetumpka, Ala	45
Redding, Cal	20	Wheeling, W. Va	36
Red Wing, Minn	14	Whitesburg, Ga	15
Reeds Landing, Minn	12	Wichita, Kans	10
Renova, Pa	35	Wilkesbarre, Pa	14
Resaca, Ga	25	Williamsport, Pa	20
Reynolds, Ga	10	Wilsonville, Ala	15
Richmond, Va	12	Yazoo City, Miss	25
Riverton, Ala	25	Zanesville, Ohio	20

DRAINAGE AREAS IN SQUARE MILES.

Station.	Square miles.	Station.	Square miles.
Albany, Ga.....	5,000	Demopolis, Ala.....	15,280
Albany, N. Y.....		Des Moines, Iowa.....	6,070
Albany, Oreg.....	4,980	Donaldsonville, La.....	
Alexandria, La.....	63,300	Driftwood, Pa.....	
Arkansas City, Ark.....	1,125,000	Dublin, Ga.....	4,182
Arlington, Mo.....	2,800	Dubuque, Iowa.....	77,000
Arthur City, Tex.....	40,200	East Bloomsburg, Pa.....	
Augusta, Ga.....	7,294	Edisto, S. C.....	
Bagnell, Mo.....		Effingham, S. C.....	1,200
Beardstown, Ill.....	24,700	Elwood Junction, Pa.....	
Beaver Dam, Pa.....		Enfauila, Ala.....	6,900
Bismarck, N. Dak.....	194,000	Eugene, Oreg.....	2,100
Boonville, Mo.....	507,500	Evansville, Ind.....	99,700
Bridgeport, Ala.....		Fair Bluff, N. C.....	
Brookville, Pa.....	400	Fairmont, W. Va.....	2,320
Buchanan, Va.....	2,058	Falmouth, Ky.....	2,900
Burnside, Ky.....	4,400	Farrandsville, Pa.....	
Cairo, Ill.....	914,400	Fayetteville, N. C.....	4,493
Calhoun Falls, S. C.....	2,712	Florence, Ala.....	30,000
Camden, Ark.....	5,700	Folsom City, Cal.....	1,645
Camden, S. C.....	2,635	Fort Smith, Ark.....	152,100
Cameron, Pa.....		Frankfort, Ky.....	5,300
Canton, Ga.....	604	Freeport, Pa.....	9,220
Carlton, Ga.....	762	Fulton, Ark.....	46,900
Carthage, Tenn.....	9,800	Gadsden, Ala.....	5,680
Cascade Locks, Oreg.....		Galland, Iowa.....	
Catlettsburg, Ky.....	56,700	Grafton, Ill.....	171,000
Cedar Run, Pa.....		Greensboro, Pa.....	4,574
Charleston, Tenn.....	2,200	Greenville, Miss.....	1,125,000
Charleston, W. Va.....	9,200	Hannibal, Mo.....	143,700
Chattanooga, Tenn.....	21,418	Harpers Ferry, W. Va.....	9,363
Cheraw, S. C.....	6,960	Harrisburg, Pa.....	24,030
Chester, Ill.....	709,000	Helena, Ark.....	935,700
Cincinnati, Ohio.....	71,300	Hermann, Mo.....	527,500
Claiborne, Ala.....	19,900	Hinton, W. Va.....	5,600
Clarion, Pa.....	865	Huntingdon, Pa.....	1,320
Clarksville, Va.....	7,344	Huntington, W. Va.....	56,000
Clinton, Tenn.....	2,750	Johnsonville, Tenn.....	36,700
Columbia, S. C.....	7,300	Johnstown, Pa.....	450
Columbia, Tenn.....	1,100	Kansas City, Mo.....	491,800
Columbia, Va.....	5,800	Karthus, Pa.....	
Columbus, Ga.....	4,900	Keating, Pa.....	
Columbus, Miss.....	4,300	Keokuk, Iowa.....	126,200
Columbus, Ohio.....	1,139	Kingston, Tenn.....	16,200
Colusa, Cal.....	14,900	Kingstree, S. C.....	
Confluence, Pa.....	782	Knoxville, Tenn.....	8,300
Conway, S. C.....		La Crosse, Wis.....	61,340
Cordova, Ala.....	237	Leclaire, Iowa.....	91,700
Coushatta, La.....	59,300	Lewiston, Idaho.....	
Danville, Va.....	1,900	Little Rock, Ark.....	157,000
Dardanelle, Ark.....	157,000	Lockhaven, Pa.....	3,740
Davenport, Iowa.....	93,000	Lock No. 4, Ala.....	
Davis Island Dam, Pa.....		Lock No. 4, Pa.....	5,430
Dayton, Ohio.....	2,200	Loudon, Tenn.....	11,500
Delhi, La.....		Louisa, Ky.....	3,630

DRAINAGE AREAS IN SQUARE MILES.

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Station.	Square miles.	Station.	Square miles.
Louisiana, Mo	146, 700	Rome, Ga	4, 001
Louisville, Ky	84, 600	Rowlesburg, W. Va	890
Lynchburg, Va	3, 700	Sacramento, Cal	26, 140
Macon, Ga	2, 425	St. Joseph, Mo	426, 900
Madison, Ind	84, 000	St. Louis, Mo	699, 000
Marietta, Ohio	32, 400	St. Paul, Minn	36, 085
Marysville, Cal	3, 540	St. Stephens, S. C	13, 600
Melville, La		Salem, Oreg	7, 940
Memphis, Tenn	925, 000	San Andreas, Cal	
Miffin, Pa		San Joaquin Bridge, Cal	
Monroe, La	17, 760	Selinsgrove, Pa	17, 600
Montgomery, Ala	13, 500	Selma, Ala	15, 400
Morgantown, W. Va	2, 750	Shreveport, La	56, 900
Mt. Carmel, Ill	26, 300	Sinnamahoning, Pa	
Mt. Vernon, Ind	126, 600	Sioux City, Iowa	314, 900
Muscataine, Iowa	93, 300	Smith Mills, S. C	
Nashville, Tenn	11, 600	Speers Ferry, Va	
New Orleans, La	1, 235, 600	Stoystown, Pa	
Newport, Ark	17, 600	Strawberry Plains, Tenn	3, 400
Nisbet, Pa		Sturdevant, Ala	2, 130
North McGregor, Iowa		Tallassee, Ala	3, 460
Northport, Wash		Tehama, Cal	
Oakdale, Ga	1, 560	Terre Haute, Ind	11, 200
Oil City, Pa	4, 530	The Dalles, Oreg	240, 000
Omaha, Nebr	323, 100	Towanda, Pa	8, 000
Oroville, Cal	3, 100	Tuscaloosa, Ala	4, 900
Paducah, Ky	201, 200	Umatilla, Oreg	215, 500
Parker, Pa	6, 020	Vicksburg, Miss	1, 136, 700
Parkersburg, W. Va	34, 600	Warren, Pa	3, 060
Peoria, Ill	15, 700	Warsaw, Ill	126, 700
Philippi, W. Va	620	Washington, D. C	11, 600
Pierre, S. Dak	243, 600	Waterford, Cal	
Pittsburg, Pa	17, 000	Webbers Falls, Ind. T	
Plattsmouth, Nebr	416, 000	Weiser, Idaho	1, 670
Point Pleasant, W. Va	48, 900	Weldon, N. C	8, 180
Portland, Oreg	12, 200	Wenatchee, Wash	
Portsmouth, Ohio	63, 700	West Newton, Pa	1, 550
Radford, Va		Weston, W. Va	140
Red Bluff, Cal	9, 356	West Point, Ga	3, 300
Redding, Cal	8, 860	Wetumpka, Ala	
Red Wing, Minn		Wheeling, W. Va	22, 600
Reeds Landing, Minn		Whitesburg, Ga	2, 000
Renovo, Pa		Wichita, Kans	
Resaca, Ga	1, 527	Wilkesbarre, Pa	11, 600
Reynolds, Ga	2, 000	Williamsport, Pa	
Richmond, Va		Wilsonville, Ala	7, 960
Riverton, Ala		Yazoo City, Miss	8, 580
Riverton, Va	2, 624	Zanesville, Ohio	6, 230
Rockwood, Tenn	16, 200		

TABLE OF APPROXIMATE DISCHARGES.

[It must be understood that the figures given below represent average, not actual, conditions. They have been compiled as carefully as possible from all available data, and are believed to be correct within reasonable limitations.]

Station.	River.	Stages of water (feet).												
		0.	5.	10.	15.	18.	20.	25.	30.	35.	40.	45.	50.	Over 50.
		Discharge per second in thousands of cubic feet.												
Alexandria, La.	Red	8.0	16.0	26.0	39.0				102.0	145.0	1186.0			
Arkansas City, Ark.	Mississippi	122.0		257.0	340.0		470.0	535.0	650.0	795.0	950.0	1,275.0	1,500.0	1,600.0
Augusta, Ga.	Savannah		3.0	12.0	29.0		51.0	73.0	89.0					
Buchanan, Va.	James	0.7	6.8	20.2	53.2									
Calro, Ill.	Ohio and Missis-		125.0	190.0	310.0		385.0	520.0	680.0	840.0	1,030.0	1,275.0	1,500.0	1,680.0
Calhoun Falls, S. C.	sippi.													
Savannah	Savannah		15.0											
Canton, Ga.	Etowah	0.5	4.9	8.8										
Carlton, Ga.	Broad		2.7											
Charleston, W. Va.	Great Kanawha		8.0	32.0	51.0		79.0		110.0	163.0				
Chattanooga, Tenn.	Tennessee	1.0	30.0	63.0	96.0		128.0	175.0	224.0	312.0	401.0	490.0		
Cincinnati, Ohio	Ohio	3.0	18.0	63.0	101.0		144.0		205.0		378.0	4552.0	5710.0	6945.0
Clarksville, Va.	Roanoke	11.0	18.0	63.0	101.0									
Clarksville, Va.	Roanoke	0.6	9.3	22.0	31.0									
Coushatta, La.	Red				40.0	56.0								
Dublin, Ga.	Oconee	1.5	5.6	11.3	17.0									
Fayetteville, N. C.	Cape Fear	0.3	2.0	5.0	8.0		12.0	18.0	25.0					
Grafton, Ill.	Mississippi		58.0	100.0	172.0		270.0	350.0	7740.0					
Greenville, Miss.	do													
Hannibal, Mo.	do		48.0	110.0	196.0	267.0								
Harrisburg, Pa.	Susquehanna	3.0	51.0	141.0	231.0									
Helena, Ark.	Mississippi		157.0	217.0	309.0		429.0	545.0	674.0	772.0	972.0	1,268.0	1,630.0	1,690.0
Kansas City, Mo	Missouri	1.0	35.0	81.0	155.0		290.0	405.0						
Little Rock, Ark	Arkansas						136.0	195.0	456.0					
Louisia, Ky	Big Sandy	0.2						45.0						
Macon, Ga	Ocmulgee	0.7					38.2							
Memphis, Tenn	Mississippi		183.0	315.0	430.0		590.0	755.0	915.0	1,190.0				
Nashville, Tenn.	Cumberland													
New Orleans, La. (Car-	Mississippi	1.3	478.0	705.0	1,079.0	1,030.0								
rollton).														
Oakdale, Ga.	Chattahoochee	1.0	5.4	12.4	19.2									
Omaha, Nebr	Missouri		21.0	82.0										
Paducah, Ky	Ohio		90.0	130.0	180.0		280.0	380.0	520.0	640.0	800.0	920.0	1,200.0	
Parkersburg, W. Va	do	5.0		64.0										5540.0
Red Bluff, Cal	Sacramento		16.0	43.0	71.0		102.0	149.0						
St. Louis, Mo.	Mississippi		48.0	110.0	215.0		297.0	453.0	650.0	1,100.0				
St. Paul, Minn	do		10.0	31.0	63.0	85.0								

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INDEX TO GAGE READINGS.

ALPHABETICAL ARRANGEMENT BY RIVER SYSTEMS.

The system is named from the river which finally enters the ocean, except in the case of the Ohio and Missouri rivers, which are treated as separate systems. Where a station is located on a tributary stream the connection of the latter to the main river is indicated by adding to the index river of the system the tributary connection, arranged in geographical sequence.

System.	Tributary connection.	Station.	Page.
Altamaha	Ocmulgee	Macon, Ga.	84- 85
Apalachicola	Oconee	Dublin, Ga.	86- 87
	Chattahoochee	Oakdale, Ga.	88- 89
		Whitesburg, Ga.	90- 91
		Westpoint, Ga.	92- 93
		Columbus, Ga.	94- 95
		Eufaula, Ala.	96- 97
	Flint	Reynolds, Ga.	98- 99
Cape Fear	Main stream	Albany, Ga.	100-101
Columbia	Main stream	Fayetteville, N. C.	102-103
		Northport, Wash.	104-105
		Umatilla, Oreg.	106-107
		The Dalles, Oreg.	108-109
		Cascade Locks, Oreg.	110-111
	Snake	Weiser, Idaho	112
		Lewiston, Idaho	113
	Willamette	Eugene, Oreg.	114-115
		Albany, Oreg.	116-117
		Salem, Oreg.	118-119
		Portland, Oreg.	120-121
Edisto	Main stream	Edisto, S. C.	122-123
James	Main stream	Buchanan, Va.	124-125
		Lynchburg, Va.	126-127
		Richmond, Va.	128-129
Mississippi	Main stream	St. Paul, Minn.	130-131
(See also Missouri and Ohio.)		Red Wing, Minn.	132-133
		Reeds Landing, Minn.	134-135
		La Crosse, Wis.	136-137
		North McGregor, Iowa.	138-139
		Dubuque, Iowa.	140-141
		Leclaire, Iowa.	142-143
		Davenport, Iowa.	144-145
		Muscatine, Iowa.	146-147
		Galland, Iowa.	148
		Keokuk, Iowa.	149-150
		Warsaw, Ill.	151
		Hannibal, Mo.	152-153
		Grafton, Ill.	154-155
		St. Louis, Mo.	156-157
		Chester, Ill.	158-159
		Memphis, Tenn.	160-161
		Helena, Ark.	162-163
		Arkansas City, Ark.	164-165

System.	Tributary connection.	Station.	Page.
Mississippi	Main stream	Greenville, Miss	166-167
		Vicksburg, Miss	168-169
	Des Moines	Donaldsonville, La	170
		New Orleans, La	171-172
	Illinois	Des Moines, Iowa	173-174
		Peoria, Ill	175-176
	Arkansas	Beardstown, Ill	177
		Wichita, Kans	178-179
	White	Webbers Falls, Ind. T.	180
		Fort Smith, Ark	181-182
	Black, Ouachita	Dardanelle, Ark	183-184
		Little Rock, Ark	185-186
	Ouachita	Newport, Ark	187-188
		Camden, Ark	189-190
	Yazoo	Monroe, La	191-192
		Yazoo City, Miss	193-194
	Red	Arthur City, Tex	195-196
		Fulton, Ark	197-198
	Atchafalaya ¹	Shreveport, La	199-200
		Alexandria, La	201-202
Missouri	Main stream	Melville, La	203-204
		Bismarck, N. Dak	205-206
	Osage	Pierre, S. Dak	207-208
		Sioux City, Iowa	209-210
	Gasconade	Omaha, Nebr	211-212
		Plattsmouth, Nebr	213-214
	Alabama	St. Joseph, Mo	215-216
		Kansas City, Mo	217-218
	Osage	Boonville, Mo	219-220
		Hermann, Mo	221-222
	Gasconade	Bagnell, Mo	223-224
		Arlington, Mo	225-226
Mobile	Alabama	Montgomery, Ala	227-228
		Selma, Ala	229-230
	Coosa	Claiborne, Ala	231
		Gadsden, Ala	232-233
	Etowah	Lock No. 4, Ala	234-235
		Wilsonville, Ala	236-237
	Oostenaula	Wetumpka, Ala	238-239
		Canton, Ga	240-241
	Tallapoosa	Resaca, Ga	242-243
		Rome, Ga	244-245
	Tombigbee	Sturdevant, Ala	246-247
		Tallasee, Ala	248-249
	Black Warrior	Columbus, Miss	250-251
		Demopolis, Ala	252-253
Ohio	Main stream	Cordova, Ala	254
		Tuscaloosa, Ala	255-256
	Pittsburg, Pa	Pittsburg, Pa	257-258
		Herr's Island Dam, Pa	259
	Davis Island Dam, Pa	Davis Island Dam, Pa	260-261
		Beaver Dam, Pa	262-263
	Wheeling, W. Va	Wheeling, W. Va	264-265
		Marietta, Ohio	266
	Parkersburg, W. Va	Parkersburg, W. Va	267-268
		Point Pleasant, W. Va	269-270
	Huntington, W. Va	Huntington, W. Va	271
		Catlettsburg, Ky	272-273
	Portsmouth, Ohio	Portsmouth, Ohio	274-275
		Cincinnati, Ohio	276-277
	Madison, Ind	Madison, Ind	278
		Louisville, Ky	279-280
	Evansville, Ind	Evansville, Ind	281-282
		Mount Vernon, Ind	283-284
	Paducah, Ky	Paducah, Ky	285-286
		Cairo, Ill	287-288

¹ The Atchafalaya is a secondary outlet of the Red River, forming in reality a part of the Mississippi Delta.

System.	Tributary connection.	Station.	Page.
Ohio.....	Allegheny	Warren, Pa.	289-290
		Oil City, Pa.	291-292
		Parker, Pa.	293-294
		Freeport, Pa.	295-296
	Red Bank Creek.....	Brookville, Pa.	297-298
	Conemaugh	Johnstown, Pa.	299-300
	Beaver	Ellwood Junction, Pa.	301-302
	Monongahela	Fairmont, W. Va.	303-304
		Morgantown, W. Va.	305
		Greensboro, Pa.	306-307
		Lock No. 4, Pa.	308-309
	West Fork.....	Weston, W. Va.	310-311
	Tygarts Valley.....	Philippi, W. Va.	312
	Cheat	Rowlesburg, W. Va.	313-314
	Youghiogheny.....	Confluence, Pa.	315-316
		West Newton, Pa.	317-318
		Derry Station, Pa.	319-320
	McGees Run	Irwin, Pa.	321-322
	Brush Run	Zanesville, Ohio	323-324
	Muskingum.....	Charleston, W. Va.	325-326
	Great Kanawha	Radford, Va.	327-328
		New.....	329-330
	Big Sandy	Hinton, W. Va.	331
	Licking	Louisa, Ky.	332-333
	Scioto	Falmouth, Ky.	334
	Miami.....	Columbus, Ohio.....	335-336
	Cumberland	Dayton, Ohio	337-338
		Burnside, Ky.	339-340
		Carthage, Tenn.	341-342
		Nashville, Tenn.	343-344
	Tennessee	Knoxville, Tenn.	345
		Rockwood, Tenn.	346-347
		Chattanooga, Tenn.	348-349
		Bridgeport, Ala.	350-351
		Upper Muscle Shoals, Ala.	352-353
		Lower Muscle Shoals, Ala.	354-355
		Florence, Ala.	356-357
		Riverton, Ala.	358-359
	Clinch	Johnsonville, Tenn.	360-361
		Speers Ferry, Va.	362-363
		Clinton, Tenn.	364-365
	Holston	Kingston, Tenn.	366
	Hiwassee	Strawberry Plains, Tenn.	367-368
	Wabash	Charleston, Tenn.	369
Pedee.....	Main stream	Terre Haute, Ind.	370-371
		Mount Carmel, Ill.	372-373
		Cheraw, S. C.	374-375
		Smiths Mills, S. C.	376-377
Potomac	Lumber	Fair Bluff, N. C.	378-379
	Lynch Creek	Effingham, S. C.	380-381
	Black	Kingstree, S. C.	382-383
Roanoke	Main stream.....	Harpers Ferry, W. Va.	384-385
		Clarksville, Va.	386-387
Sacramento	Dan	Weldon, N. C.	388-389
	Main stream.....	Danville, Va.	390-391
		Redbluff, Cal.	392-393
Santee	Main stream.....	Sacramento, Cal.	394-395
	Wateree	St. Stephens, S. C.	396-397
Savannah	Congaree	Camden, S. C.	398-399
	Main stream.....	Columbia, S. C.	400-401
Susquehanna		Calhoun Falls, S. C.	402-403
		Augusta, Ga.	404-405
	Broad	Carlton, Ga.	406-407
	Main stream.....	Towanda, Pa.	408-409
		Wilkesbarre, Pa.	410-411
		East Bloomsburg, Pa.	412
		Sunbury, Pa.	413
		Selinsgrove, Pa.	

System.	Tributary connection.	Station.	Page.
Susquehanna.....	Main stream.....	Duncannon, Pa	414-415
		Harrisburg, Pa	416-417
	Juniata.....	Huntingdon, Pa.....	418-419
		Mifflin, Pa.....	420-421
	West Branch.....	Karthus, Pa	422-423
		Keating, Pa	424-425
		Renova, Pa	426-427
		Farrandsville, Pa.....	428-429
		Lockhaven, Pa.....	430-431
		Nisbet, Pa	432-433
		Williamsport, Pa.....	434-435
		Trout Run, Pa	436
		Cedar Run, Pa	437-438
		Cameron, Pa	439-440
		Driftwood, Pa.....	441-442
		Sinnamahoning, Pa.....	443-444
		Conway, S. C	445-446
Waccamaw.....	Main stream.....		

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Albany, Ga.....	100	100	101	101	Des Moines, Iowa.....	173	173	174	
Albany, Oreg.....	116	116	117	117	Donaldsonville, La.....	170			
Alexandria, La.....	201	201	202	202	Driftwood, Pa.....	441	441	442	442
Arkansas City, Ark.....	164	164	165	165	Dublin, Ga.....	86	86	87	87
Arlington, Mo.....	225	225	226	226	Dubuque, Iowa.....	140	140	141	141
Arthur City, Tex.....	195	195	196	196	Duncannon, Pa.....	414	414	414	415
Augusta, Ga.....	402	402	403	403	East Bloomsburg, Pa.....	410	410	411	411
Bagnell, Mo.....	223	223	224	224	Edisto, S. C.....	122	122	123	123
Beardstown, Ill.....			177	177	Effingham, S. C.....	378	378	379	379
Beaver Dam, Pa.....	262	262	263	263	Elwood Junction, Pa.....	301	301	302	302
Bismarck, N. Dak.....	205	205	206	206	Eufaula, Ala.....	96	96	97	97
Boonville, Mo.....	219	219	220	220	Eugene, Oreg.....	114	114	115	115
Bridgeport, Ala.....	348	348	349	349	Evansville, Ind.....	281	281	282	282
Brookville, Pa.....	297	297	298	298	Fair Bluff, N. C.....	376	376	377	377
Buchanan, Va.....	124	124	125	125	Fairmont, W. Va.....	303	303	304	304
Burnside, Ky.....	337	337	338	338	Falmouth, Ky.....	332	332	333	333
Cairo, Ill.....	287	287	288	288	Farrandsville, Pa.....	428	428	429	429
Calhoun Falls, S. C.....		400	400	401	Fayetteville, N. C.....	102	102	103	103
Camden, Ark.....	189	189	190	190	Florence, Ala.....	354	354	355	355
Camden, S. C.....	396	396	397	397	Fort Smith, Ark.....	181	181	182	182
Cameron, Pa.....	439	439	440	440	Freeport, Pa.....	295	295	296	296
Canton, Ga.....	240	240	241	241	Fulton, Ark.....	197	197	198	198
Carlton, Ga.....		404	404	405	Gadsden, Ala.....	232	232	233	233
Carthage, Tenn.....	339	339	340	340	Galland, Iowa.....			148	148
Cascade Locks, Oreg.....	110	110	111	111	Grafton, Ill.....	154	154	155	155
Catlettsburg, Ky.....	272	272	273	273	Greensboro, Pa.....	306	306	307	307
Cedar Run, Pa.....	437	437	438	438	Greenville, Miss.....	166	166	167	167
Charleston, Tenn.....	367	367	368	368	Hannibal, Mo.....	152	152	153	153
Charleston, W. Va.....	325	325	326	326	Harpers Ferry, W. Va.....	382	382	383	383
Chattanooga, Tenn.....	346	346	347	347	Harrisburg, Pa.....	416	416	417	417
Cheraw, S. C.....	372	372	373	373	Helena, Ark.....	162	162	163	163
Chester, Ill.....	158	158	159	159	Hermann, Mo.....	221	221	222	222
Cincinnati, Ohio.....	276	276	277	277	Herrs Island Dam, Pa.....			259	259
Claiborne, Ala.....	231				Hinton, W. Va.....	329	329	330	330
Clarksville, Va.....	384	384	385	385	Huntingdon, Pa.....	418	418	419	419
Clinton, Tenn.....	362	362	363	363	Huntington, W. Va.....				271
Columbia, S. C.....	398	398	399	399	Irwin, Pa.....		321	321	322
Columbus, Ga.....	94	94	95		Johnsonville, Tenn.....	358	358	359	359
Columbus, Miss.....	250	250	251	251	Johnstown, Pa.....	299	299	300	300
Columbus, Ohio.....			334	334	Kansas City, Mo.....	217	217	218	218
Confluence, Pa.....	315	315	316	316	Karthauss, Pa.....	422	422	423	423
Conway, S. C.....	445	445	446	446	Keating, Pa.....	424	424	425	425
Cordova, Ala.....	254	254			Keokuk, Iowa.....	149	149	150	150
Danville, Va.....	388	388	389	389	Kingston, Tenn.....	364	364	365	365
Dardanelle, Ark.....	183	183	184	184	Kingtree, S. C.....	380	380	381	381
Davenport, Iowa.....	144	144	145	145	Knoxville, Tenn.....	343	343	344	344
Davis Island Dam, Pa.....	260	260	261	261	La Crosse, Wis.....	136	136	137	137
Dayton, Ohio.....	335	335	336	336	Leclaire, Iowa.....	142	142	143	143
Demopolis, Ala.....	252	252	253	253	Lewiston, Idaho.....			113	113
Derry Station, Pa.....		319	319	320	Little Rock, Ark.....	185	185	186	186

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Lockhaven, Pa	430	430	431	431	Riverton, Ala	356	356	357	357
Lock No. 4, Ala	234	234	235	235	Rockwood, Tenn	345	345
Lock No. 4, Pa	308	308	309	309	Rome, Ga	244	244	245	245
Louisa, Ky	331	331	.....	.....	Rowlesburg, W. Va	313	313	314	314
Louisville, Ky	279	279	280	280	Sacramento, Cal	392	392	393	393
Lower Muscle Shoals, Ala	352	352	353	353	St. Joseph, Mo	215	215	216	216
Lynchburg, Va	126	126	127	127	St. Louis, Mo	156	156	157	157
Macon, Ga	84	84	85	85	St. Paul, Minn	130	130	131	131
Madison, Ind .....	.....	.....	.....	278	St. Stephens, S. C.	394	394	395	395
Marietta, Ohio	266	266	.....	.....	Salem, Oreg	118	118	119	119
Melville, La	203	203	204	204	Selinsgrove, Pa .....	.....	.....	413	413
Memphis, Tenn	160	160	161	161	Selma, Ala	229	229	230	230
Mifflin, Pa	420	420	421	421	Shreveport, La	199	199	200	200
Monroe, La	191	191	192	192	Sinnamahoning, Pa .....	.....	443	443	444
Montgomery, Ala	227	227	228	228	Sioux City, Iowa	209	209	210	210
Morgantown, W. Va	305	305	.....	.....	Smiths Mills, S. C.	374	374	375	375
Mount Carmel, Ill	370	370	371	371	Speers Ferry, Va	360	360	361	361
Mount Vernon, Ind	283	283	284	284	Strawberry Plains, Tenn	366	366	.....	.....
Muscatine, Iowa	146	146	147	147	Sturdevant, Ala	246	246	247	247
Nashville, Tenn	341	341	342	342	Sunbury, Pa .....	.....	412	.....	412
New Orleans, La	171	171	172	172	Tallassee, Ala	248	248	249	249
Newport, Ark	187	187	188	188	Terre Haute, Ind	369	369	.....	.....
Nisbet, Pa	432	432	.....	433	The Dalles, Oreg	108	108	109	109
North McGregor, Iowa	138	138	139	139	Towanda, Pa	406	406	407	407
Northport, Wash	104	104	105	105	Trout Run, Pa .....	.....	.....	436	436
Oakdale, Ga	88	88	89	89	Tuscaloosa, Ala	255	255	256	256
Oil City, Pa	291	291	292	292	Umatilla, Oreg	106	106	107	107
Omaha, Nebr	211	211	212	212	Upper Muscle Shoals, Ala	350	350	351	351
Paducah, Ky	285	285	286	286	Vicksburg, Miss	168	168	169	169
Parker, Pa	293	293	294	294	Warren, Pa	289	289	290	290
Parkersburg, W. Va	267	267	268	268	Warsaw, Ill	151	151	.....	.....
Peoria, Ill	175	175	176	176	Webbers Falls, I. T. ....	.....	.....	180	180
Philippi, W. Va .....	.....	.....	312	312	Weiser, Idaho .....	.....	.....	.....	112
Pierre, S. Dak	207	207	208	208	Weldon, N. C.	386	386	387	387
Pittsburg, Pa	257	257	258	258	West Newton, Pa	317	317	318	318
Plattsmouth, Nebr	213	213	214	214	Weston, W. Va	310	310	311	311
Point Pleasant, W. Va	269	269	270	270	Westpoint, Ga	92	92	93	93
Portland, Oreg	120	120	121	121	Wetumpka, Ala	238	238	239	239
Portsmouth, Ohio	274	274	275	275	Wheeling, W. Va	264	264	265	265
Radford, Va	327	327	328	328	Whitesburg, Ga	90	90	91	.....
Redbluff, Cal	390	390	391	391	Wichita, Kans .....	.....	178	178	179
Red Wing, Minn	132	132	133	133	Wilkesbarre, Pa	408	408	409	409
Reeds Landing, Minn	134	134	135	135	Williamsport, Pa	434	434	435	435
Renova, Pa	426	426	427	427	Wilsonville, Ala	236	236	237	237
Ressaca, Ga	242	242	243	243	Yazoo City, Miss	193	193	194	194
Reynolds, Ga	98	98	99	99	Zanesville, Ohio .....	.....	323	323	324
Richmond, Va .....	.....	128	128	129					

DAILY RIVER STAGES.

Altamaha River system—Ocmulgee River, Macon, Ga.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.9	2.5	2.5	4.0	-----	-----	-----	-----	-----	-----	0.4	9.5
2	3.5	2.9	2.2	5.0	-----	-----	-----	-----	-----	-----	0.8	11.1
3	2.2	3.2	2.1	6.5	-----	-----	-----	-----	-----	-----	0.2	12.6
4	1.7	3.0	2.0	5.5	-----	-----	-----	-----	-----	-----	9.9	10.2
5	1.6	2.8	2.0	5.1	-----	-----	-----	-----	-----	-----	14.2	8.0
6	1.2	13.5	1.9	5.0	-----	-----	-----	-----	-----	-----	14.4	6.1
7	0.9	10.7	4.0	4.8	-----	-----	-----	-----	-----	-----	8.8	4.5
8	1.8	7.5	6.3	4.7	-----	-----	-----	-----	-----	0.8	5.4	4.0
9	2.8	13.1	5.0	4.6	-----	-----	-----	-----	-----	0.8	3.2	3.6
10	2.8	11.3	4.0	4.5	-----	-----	-----	-----	-----	0.8	2.1	5.0
11	2.1	8.7	5.0	4.4	-----	-----	-----	-----	-----	0.8	1.5	3.0
12	1.6	7.0	7.2	4.3	-----	-----	-----	-----	-----	0.7	1.8	2.0
13	1.5	6.3	6.5	4.2	-----	-----	-----	-----	-----	0.6	10.0	1.8
14	1.2	6.5	6.2	4.1	-----	-----	-----	-----	-----	0.7	8.1	1.7
15	2.0	5.0	6.0	4.0	-----	-----	-----	-----	-----	0.6	5.3	11.7
16	2.5	4.8	6.0	3.5	-----	-----	-----	-----	-----	0.7	1.5	6.0
17	7.2	4.2	5.5	3.3	-----	-----	-----	-----	-----	0.8	1.4	4.0
18	5.0	3.4	5.3	3.1	-----	-----	-----	-----	-----	0.8	1.0	3.5
19	4.5	3.2	5.0	3.0	-----	-----	-----	-----	-----	0.8	0.9	2.5
20	4.0	3.0	4.9	2.8	-----	-----	-----	-----	-----	0.9	0.8	2.3
21	4.0	2.9	4.7	2.6	-----	-----	-----	-----	-----	0.9	0.7	2.0
22	3.7	2.7	4.5	2.5	-----	-----	-----	-----	-----	0.8	0.6	1.8
23	9.4	2.6	4.2	2.3	-----	-----	-----	-----	-----	0.8	0.6	1.8
24	13.8	2.5	5.0	2.1	-----	-----	-----	-----	-----	0.4	0.5	1.7
25	12.0	2.4	5.0	2.0	-----	-----	-----	-----	-----	0.5	0.5	1.6
26	9.3	2.4	4.8	3.0	-----	-----	-----	-----	-----	0.7	0.4	1.6
27	7.0	2.3	4.7	2.9	-----	-----	-----	-----	-----	0.8	0.4	1.5
28	5.8	3.3	4.6	2.7	-----	-----	-----	-----	-----	0.7	0.4	1.5
29	5.3	2.8	4.4	2.6	-----	-----	-----	-----	-----	0.2	0.3	1.4
30	4.8	-----	4.2	2.4	-----	-----	-----	-----	-----	0.2	8.3	1.4
31	3.2	-----	4.1	-----	-----	-----	-----	-----	-----	0.1	-----	1.0

1897.¹

1	0.7	2.0	4.0	5.5	-----	-----	1.0	1.0	1.1	-0.5	-0.1	1.2
2	0.6	5.0	3.7	9.7	-----	-----	0.7	0.8	1.2	-0.4	0.4	0.7
3	0.6	8.0	3.2	10.5	-----	-----	0.6	0.7	0.7	-0.5	0.5	0.6
4	0.5	6.0	2.0	10.0	-----	-----	2.2	0.4	0.6	-0.5	0.4	0.6
5	0.5	5.0	4.0	15.1	-----	-----	2.3	0.4	0.4	-0.6	0.2	1.5
6	0.5	8.0	3.0	15.1	-----	-----	3.8	0.4	0.3	-0.7	0.1	1.3
7	0.4	6.5	11.6	12.6	-----	-----	3.1	1.4	0.2	-0.5	0.1	1.1
8	0.4	5.0	12.7	10.5	-----	-----	1.6	3.2	0.1	-0.6	0.5	1.5
9	0.3	4.0	7.5	10.0	-----	-----	1.3	1.1	-0.1	-0.6	0.2	0.6
10	0.3	3.5	5.0	9.0	-----	-----	0.9	0.8	0.0	-0.6	0.2	0.5
11	0.3	5.0	4.8	7.8	-----	-----	3.1	1.6	-0.1	0.1	0.3	0.5
12	0.4	13.5	6.0	6.4	-----	-----	3.3	2.0	-0.5	0.1	0.6	0.4
13	0.5	12.5	17.3	5.0	-----	-----	1.5	1.0	-0.2	0.1	0.3	0.4
14	0.8	7.0	18.0	4.7	-----	-----	0.9	0.7	-0.1	0.8	-0.2	0.9
15	1.5	5.0	17.7	4.0	-----	-----	0.3	0.4	-0.2	0.3	-0.1	1.5
16	2.0	5.0	15.0	4.0	-----	-----	0.5	0.3	-0.2	0.1	-0.2	1.2
17	1.6	4.5	13.0	3.7	-----	-----	0.2	0.2	-0.2	-0.2	-0.1	0.4
18	1.5	3.0	9.4	3.5	-----	-----	0.4	2.6	-0.3	-0.2	-0.2	0.6
19	4.0	2.7	8.2	3.2	-----	-----	1.5	2.3	1.6	-0.2	-0.2	0.5
20	5.5	2.5	9.5	3.0	-----	-----	4.5	8.2	0.2	0.0	-0.1	0.5
21	6.0	2.4	10.0	2.9	-----	-----	9.8	8.8	-0.1	0.0	-0.1	0.5
22	7.0	2.2	9.0	2.8	-----	-----	8.4	8.1	-0.1	0.2	-0.1	0.5
23	5.5	2.0	15.5	2.7	-----	-----	5.5	6.5	-0.4	0.2	-0.1	0.7
24	3.0	1.9	14.0	2.6	-----	-----	3.0	4.7	-0.3	0.1	-0.5	0.7
25	2.0	6.0	10.6	2.5	-----	-----	1.7	2.1	-0.3	0.0	-0.2	1.0
26	2.0	10.5	8.3	2.4	-----	-----	1.1	1.4	-0.3	0.0	-0.1	0.9
27	3.0	7.0	7.0	2.2	-----	-----	1.3	1.1	-0.2	-0.1	0.1	0.9
28	2.0	5.0	6.4	2.1	-----	-----	3.2	0.8	-0.3	-0.2	0.2	1.4
29	1.5	-----	5.5	2.0	-----	-----	2.1	0.6	-0.4	-0.2	3.1	1.1
30	1.0	-----	5.2	2.0	-----	-----	1.8	0.5	-0.4	-0.2	1.4	0.8
31	1.0	-----	5.0	-----	-----	-----	1.1	0.4	-----	-0.2	-----	0.6

¹ U. S. Geological Survey Records, July to December, inclusive.

DAILY RIVER STAGES.

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*Altamaha River system—Ocmulgee River, Macon, Ga.—Continued.*1898.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.5	1.1	0.2	1.8	1.9	-0.5	-0.8	5.1	5.0	0.8	2.5	4.2
2	0.4	1.0	0.3	0.5	1.1	-0.5	-0.9	3.7	14.5	0.7	2.2	3.5
3	0.4	1.0	0.3	0.5	0.9	-0.5	-0.4	2.1	16.6	7.7	2.1	9.4
4	0.3	0.7	1.0	0.6	0.8	-0.6	-0.5	1.8	18.2	16.8	2.0	13.6
5	0.3	0.7	3.4	4.3	0.6	-0.7	-0.8	10.5	15.8	17.3	1.8	9.7
6	0.4	0.7	3.3	12.1	0.5	-0.8	-0.9	10.8	14.7	15.2	1.9	8.1
7	0.4	0.8	1.4	10.1	0.6	-0.8	2.1	10.8	11.0	13.4	2.9	6.6
8	0.4	0.8	1.4	7.9	0.6	-0.9	1.4	8.7	9.4	11.8	2.0	6.0
9	0.4	0.7	1.1	4.4	0.5	-0.8	1.9	4.9	6.9	9.2	1.9	5.2
10	0.4	0.6	0.8	3.9	0.3	-0.8	3.5	2.7	6.1	7.4	1.8	5.8
11	0.6	0.6	0.8	2.9	0.2	-0.9	3.6	6.3	4.0	5.0	2.9	4.2
12	0.8	0.5	0.6	2.7	0.2	-1.0	1.2	12.7	3.6	4.1	3.4	3.6
13	1.6	0.5	0.6	2.1	0.2	-1.0	0.9	13.0	3.8	3.5	4.2	3.6
14	1.3	0.5	0.6	1.8	0.2	0.1	1.2	13.0	2.8	3.1	6.4	3.4
15	0.9	0.4	2.0	1.6	0.1	0.5	3.2	9.1	2.5	2.8	6.2	3.2
16	0.9	0.3	3.9	1.5	0.0	-0.1	3.8	6.5	1.9	2.6	14.1	2.9
17	0.8	0.2	3.0	1.2	-0.1	-0.1	2.7	4.9	1.9	2.3	10.2	2.8
18	0.8	0.4	2.0	1.0	-0.2	-0.4	1.6	5.4	1.7	4.1	9.3	2.8
19	0.6	0.6	1.5	0.8	-0.2	0.1	0.7	2.7	1.6	4.4	12.3	3.1
20	0.7	0.7	1.2	1.0	-0.1	0.8	0.2	4.1	1.3	4.2	9.0	3.0
21	1.4	0.6	1.0	1.6	-0.2	0.6	-0.1	2.1	1.2	5.2	7.0	4.1
22	1.8	0.5	0.8	1.3	0.0	2.2	-0.3	1.9	1.5	6.9	5.5	5.7
23	1.6	0.4	0.8	1.3	0.1	0.2	-0.3	1.9	1.4	5.2	5.2	5.6
24	1.1	0.3	0.5	8.0	0.9	-0.4	3.3	1.4	1.4	4.2	4.3	5.5
25	1.2	0.3	0.5	8.9	1.5	-0.5	2.5	0.9	1.3	3.9	4.0	4.9
26	2.7	0.2	0.4	6.1	1.5	-0.5	5.4	0.5	1.3	3.2	3.5	4.6
27	5.4	0.2	0.4	3.2	1.1	0.3	5.3	4.2	1.1	2.9	3.2	4.1
28	4.3	0.2	0.4	2.9	0.3	0.5	3.1	7.2	1.0	2.4	2.9	3.8
29	2.5	.....	0.4	2.6	-0.1	-0.4	3.1	9.4	0.8	2.3	3.5	3.3
30	2.1	.....	0.5	2.0	-0.3	-0.6	4.3	7.5	0.8	2.9	3.3	3.2
31	1.6	.....	1.5	.....	-0.4	.....	9.0	5.1	.....	2.7	.....	3.1

1899.²

1	4.4	9.6	14.7	11.3	4.0	4.4	4.5	2.5	2.6	0.3	0.8	1.7
2	6.6	8.4	11.1	8.7	3.8	2.8	3.8	2.1	1.8	0.3	0.6	1.5
3	6.0	13.7	9.1	8.0	3.6	2.6	3.6	1.4	2.0	0.3	0.6	1.2
4	5.2	12.0	8.3	7.9	3.5	2.6	3.5	1.4	1.8	0.4	0.5	2.1
5	3.7	9.9	8.1	8.1	3.4	1.9	3.5	1.2	1.8	0.5	0.5	1.9
6	4.1	10.8	7.6	7.8	8.1	1.8	8.2	1.0	1.1	2.3	0.5	1.5
7	15.2	15.8	6.8	6.9	6.7	1.6	6.6	0.8	0.7	2.0	0.4	1.3
8	12.6	13.4	6.7	6.5	5.3	1.6	4.5	0.7	0.7	10.0	0.4	1.1
9	10.2	12.1	6.4	6.0	3.8	1.6	3.8	0.6	0.5	6.4	0.4	1.1
10	9.2	10.8	6.1	5.6	3.6	1.4	3.8	0.5	0.4	3.2	0.4	1.0
11	12.1	9.8	5.8	5.4	3.3	1.6	3.5	2.1	2.2	2.2	0.4	1.1
12	12.0	8.2	5.7	5.0	3.1	1.5	3.5	1.0	2.5	1.8	0.5	3.7
13	9.4	7.6	5.6	4.7	3.0	2.3	3.0	1.2	2.2	1.3	0.5	4.7
14	9.0	7.1	5.6	4.6	2.9	2.9	3.0	0.8	1.7	1.0	0.5	3.9
15	8.2	6.1	5.5	4.4	2.8	2.2	3.0	0.7	0.9	1.0	0.8	2.6
16	9.7	12.3	8.5	5.0	2.7	1.7	2.6	0.7	0.6	0.9	0.7	2.0
17	12.9	12.0	7.2	4.4	2.5	1.5	2.5	0.6	0.6	0.8	0.7	1.8
18	10.9	11.1	9.4	4.3	2.4	2.3	2.4	0.6	0.5	0.8	0.7	1.5
19	9.3	9.8	12.9	10.4	2.3	1.4	2.3	0.5	0.5	0.8	0.6	1.4
20	5.9	8.3	10.7	7.8	2.2	1.3	2.2	0.4	0.4	2.0	0.6	1.4
21	5.1	8.3	9.4	5.5	2.2	1.3	2.2	0.4	0.3	2.8	0.6	1.3
22	5.4	8.2	8.1	4.7	2.5	1.2	2.5	0.0	0.3	3.2	0.5	1.3
23	5.1	8.1	6.4	4.6	3.7	1.0	3.8	3.3	0.3	2.4	0.6	1.4
24	5.4	7.1	8.6	5.5	3.4	0.9	3.4	3.1	0.2	1.6	1.0	6.4
25	5.3	6.3	8.8	11.9	3.0	0.9	2.9	2.1	0.2	1.2	1.4	5.9
26	5.0	6.1	6.9	12.4	2.4	1.2	2.5	1.2	0.4	1.0	4.4	5.2
27	4.7	12.1	6.0	8.2	2.2	3.2	2.3	0.8	0.4	0.8	5.3	3.5
28	4.7	14.9	5.9	5.8	2.1	3.2	2.0	3.0	0.4	0.8	4.2	2.6
29	5.0	.....	7.3	5.2	2.1	1.6	2.3	2.3	0.3	1.4	3.1	2.3
30	4.9	.....	6.9	4.7	2.0	1.7	2.1	1.8	0.3	1.0	2.0	2.1
31	5.1	.....	6.3	.....	2.2	.....	2.3	2.4	.....	1.1	.....	1.8

¹ U. S. Geological Survey Records.² U. S. Geological Survey Records, January to May, inclusive.

DAILY RIVER STAGES.

Altamaha River system—Oconee River, Dublin, Ga.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.1	6.0	6.6	3.0							0.5	3.2
2	5.0	4.5	6.8	3.8							0.1	6.7
3	4.7	4.4	6.4	5.5							0.4	9.5
4	3.6	6.5	5.4	5.8							1.1	10.7
5	2.8	6.4	5.0	5.3							5.4	11.4
6	2.2	8.4	4.0	4.4							7.7	12.8
7	1.9	11.0	3.8	3.5							9.3	13.1
8	1.9	11.6	4.6	3.0							10.5	12.4
9	2.7	14.8	6.4	2.8							10.2	10.1
10	4.0	17.0	6.2	2.7							7.5	7.3
11	4.0	16.8	5.8	2.6							3.4	6.5
12	3.5	16.5	6.7	2.4							2.5	5.6
13	3.0	15.9	7.3	2.3							2.5	4.5
14	2.5	15.0	7.6	2.2							3.6	4.1
15	2.3	13.4	7.0	2.2							3.7	4.1
16	2.0	11.2	5.8	2.1							3.9	4.0
17	3.5	9.6	5.2	2.0						1.1	3.5	8.0
18	6.7	8.1	4.8	1.9						1.1	2.5	8.9
19	7.5	6.7	4.6	1.8						1.1	1.7	9.7
20	8.0	5.8	4.4	1.7						1.2	1.5	8.1
21	8.0	5.2	4.7	1.7						1.2	1.3	5.3
22	6.4	4.8	4.6	1.6						1.2	1.1	4.1
23	5.0	4.6	4.3	1.4						1.2	1.0	3.7
24	6.9	4.2	4.1	1.2						1.2	0.9	3.2
25	8.3	4.1	3.9	1.0						1.1	0.8	3.0
26	8.9	4.0	4.5	0.9						0.6	0.6	2.8
27	10.0	4.0	4.4	0.9						0.2	0.5	2.5
28	11.4	3.9	4.2	1.1						0.1	0.6	2.3
29	12.3	5.0	3.9	1.5						0.2	0.6	2.3
30	12.0		3.7	1.8						0.4	0.6	2.2
31	10.9		3.8							0.6		2.2

1897.

1	2.1	2.7	12.8	8.1								
2	2.1	3.2	13.5	10.8								
3	2.1	5.4	12.3	12.0								
4	2.0	6.2	9.5	14.0								
5	2.0	6.2	7.5	15.5								
6	1.9	6.9	7.0	15.6								
7	1.9	8.0	7.2	15.0								
8	1.8	8.7	8.1	14.8								
9	1.8	9.2	8.8	16.0								
10	1.8	9.8	9.6	16.7								
11	1.8	9.7	10.0	16.1								
12	1.7	10.8	10.8	14.8								
13	1.5	11.6	11.0	13.5								
14	1.5	13.0	13.0	12.1								
15	1.5	14.3	15.5	9.9								
16	1.6	16.1	20.5	8.0								
17	4.8	16.0	22.7	7.2								
18	5.0	14.6	21.4	6.8								
19	4.6	13.1	20.0	6.4								
20	5.2	11.7	18.0	6.6								
21	6.0	10.2	16.0	6.4								
22	6.4	9.2	14.7	5.0								
23	7.2	7.6	15.5	4.5								
24	7.8	7.5	16.2	4.4								
25	8.4	7.8	17.0	4.3								
26	8.4	9.9	17.7	4.1								
27	6.4	10.5	17.0	4.0								
28	5.2	12.0	15.5	4.0								
29	3.8		13.4	3.9								
30	3.0		10.8	4.2								
31	2.8		8.5									

DAILY RIVER STAGES.

87

Altamaha River system—Oconee River, Dublin, Ga.—Continued.

1898.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			0.5	1.0	4.0	-0.6	-1.0	5.8	11.8	0.8	3.6	5.5
2			0.5	2.0	2.6	-0.7	-1.1	4.3	13.0	0.7	3.3	5.5
3			0.5	2.8	1.9	-0.7	-1.2	2.8	16.0	2.3	3.1	5.4
4			0.9	2.0	1.7	-0.8	-1.2	2.0	23.0	6.9	2.5	7.5
5			1.9	2.5	1.4	-0.9	-1.3	1.6	24.6	8.7	2.3	8.5
6			3.9	6.0	1.1	-1.0	-1.2	2.0	23.3	9.4	2.1	9.6
7			3.9	7.8	1.0	-0.1	-0.9	4.2	21.2	10.5	2.0	11.1
8			2.6	8.5	0.9	-0.1	0.3	5.9	19.5	11.3	2.0	12.6
9			2.0	9.4	0.8	-1.1	1.0	6.4	18.0	13.5	1.8	12.6
10			1.8	10.0	0.7	-1.1	1.8	6.5	17.0	15.5	1.7	10.7
11		0.9	1.5	9.8	0.6	-1.2	1.8	4.2	16.0	16.0	1.7	7.7
12		0.9	1.4	6.5	0.6	-1.2	2.8	3.4	14.8	14.5	1.6	6.7
13		0.9	1.0	5.9	0.3	-1.2	3.0	3.0	12.5	11.8	1.6	6.0
14		0.9	0.9	3.3	0.2	-1.2	1.6	4.8	7.6	5.0	3.9	5.6
15		0.9	0.9	2.9	0.1	-0.7	2.9	5.5	4.7	4.0	6.7	5.2
16		0.8	2.0	2.5	0.0	-0.6	4.6	6.5	3.6	3.5	7.2	4.6
17		0.8	3.5	2.0	0.0	-0.4	4.0	6.4	3.0	3.2	7.6	4.2
18		0.9	3.5	1.8	-0.2	0.0	3.2	4.6	3.0	3.0	8.9	4.0
19		1.0	2.8	1.7	-0.2	0.9	1.8	5.9	2.7	3.0	11.0	3.9
20		1.5	3.1	1.5	-0.3	0.8	0.9	6.0	2.3	2.8	13.0	4.0
21		1.5	2.4	1.4	-0.3	0.6	0.5	5.9	2.2	4.3	14.3	4.4
22		1.4	1.9	1.4	-0.4	0.8	0.0	5.0	2.0	5.6	15.0	5.0
23		1.1	1.5	1.3	-0.4	0.7	-0.2	3.6	2.0	6.9	14.1	6.1
24		0.9	1.1	1.8	-0.4	-0.3	0.1	2.5	1.8	7.5	12.8	6.5
25		0.8	1.0	3.9	-0.1	-0.5	2.6	1.9	2.0	7.8	10.2	6.9
26		0.7	1.0	5.5	0.2	-0.7	5.1	1.6	2.8	6.3	8.3	6.7
27		0.5	0.9	6.0	0.8	-0.8	6.1	1.9	2.4	4.3	6.2	6.4
28		0.5	0.8	4.7	0.6	-0.9	7.0	7.0	1.5	3.5	5.2	5.6
29			0.7	4.9	-0.1	-0.9	6.7	10.5	1.2	3.1	5.0	5.2
30			0.6	5.4	-0.3	-0.9	6.0	10.9	0.9	3.0	5.2	4.9
31			0.6		-0.5		5.6	11.1		3.3		4.0

1899.

1	3.8	7.7	11.3	8.3	5.4	1.7	0.5	2.9	2.5	-1.3	-0.4	2.4
2	3.6	8.1	13.8	8.0	4.7	1.8	0.6	2.3	2.9	-1.3	-0.4	1.1
3	5.2	9.1	16.5	8.5	3.8	1.7	0.4	2.0	2.7	-1.3	-0.4	2.0
4	5.8	9.9	17.0	9.0	3.7	1.5	0.2	1.7	2.1	-1.3	-0.5	1.9
5	5.0	10.7	16.9	9.8	3.5	1.4	0.1	1.5	1.5	-0.8	-0.5	1.7
6	4.7	12.7	16.2	9.5	4.1	1.2	0	0.9	1.1	0.5	-0.5	1.6
7	5.0	13.1	14.5	9.0	5.0	1.0	0.2	0.8	0.8	2.4	-0.5	1.3
8	7.8	15.0	12.7	8.6	4.8	0.8	0.4	0.7	0.3	5.1	-0.6	1.1
9	8.6	20.1	11.0	8.0	4.4	0.7	0	0.2	0.2	7.2	-0.6	0.9
10	10.4	22.5	9.8	7.8	3.6	0.6	-0.1	-0.3	0.1	8.1	-0.7	0.7
11	12.2	21.7	8.6	7.5	3.0	0.5	-0.1	-0.4	0.0	8.6	-0.7	0.5
12	14.1	18.9	7.6	7.0	2.7	0.4	-0.2	-0.2	-0.1	6.8	-0.7	1.2
13	14.4	17.5	7.0	6.4	2.5	0.3	-0.3	-0.1	-0.7	4.1	-0.8	2.6
14	15.3	16.8	6.8	5.6	2.4	0.3	-0.4	-0.1	-1.5	1.7	-0.8	3.3
15	14.8	15.5	6.7	5.2	2.3	0.9	-0.3	-0.2	-0.8	1.1	-0.1	4.1
16	14.5	13.7	7.3	5.0	2.1	1.2	-0.4	-0.3	-0.2	0.6	0.7	3.2
17	14.3	12.4	7.9	4.9	2.0	0.7	-0.5	-0.5	-0.3	0.5	1.1	2.5
18	13.7	12.5	8.3	4.8	1.9	0.3	-0.6	-0.6	-0.4	0.5	0.8	1.9
19	13.3	12.7	9.2	5.3	1.8	0.3	-0.6	-0.7	-0.5	0.5	0.1	1.5
20	13.1	13.3	10.1	5.8	1.7	0.6	-0.6	-0.8	-0.6	0.4	-0.2	1.3
21	12.8	13.6	10.9	5.6	1.6	0.9	-0.7	-0.8	-0.7	0.4	-0.3	1.2
22	12.6	13.0	12.6	5.5	1.5	0.5	-0.7	-0.9	-0.8	0.2	-0.4	1.2
23	11.3	12.0	14.2	5.2	1.5	0.3	-0.7	-0.7	-0.9	0.0	-0.3	1.4
24	8.3	10.8	13.4	5.0	1.8	0.2	-0.8	-0.3	-0.9	-0.1	0.1	1.4
25	7.8	9.8	11.9	4.8	2.1	0.2	0.8	0.2	-1.0	-0.3	0.5	2.3
26	7.3	9.0	10.0	5.9	1.8	0.0	0.3	2.5	-1.0	-0.4	1.3	5.3
27	7.1	9.7	9.6	7.4	1.7	-0.1	0.7	3.0	-1.1	-0.5	2.1	5.6
28	6.8	9.6	8.9	8.0	1.6	-0.2	0.9	3.0	-1.1	-0.6	3.2	4.6
29	7.0		8.3	7.2	1.6	-0.2	1.8	5.1	-1.1	-0.7	4.4	3.9
30	7.4		8.1	6.1	1.8	0.4	4.7	4.5	-1.2	-0.7	3.3	2.8
31	7.6		8.0		1.6		5.0	2.9		-0.3		2.6

¹ U. S. Geological Survey Records, February to October 14, inclusive.

DAILY RIVER STAGES.

*Apalachicola River system—Chattahoochee River, Oakdale, Ga.*1896.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.2	1.7	1.4	1.4	0.8	0.2	0.4	0.4	-0.4	0.2	0.5	0.6
2	2.0	1.6	1.4	1.7	0.8	1.4	0.4	0.5	-0.6	0.1	0.5	1.2
3	1.0	1.8	1.4	2.8	0.8	1.4	-0.4	1.4	-0.6	0.0	0.6	1.7
4	1.2	2.1	1.4	1.8	0.7	2.1	0.2	1.7	-0.6	-0.2	1.1	3.2
5	1.1	2.2	1.4	1.4	0.6	1.6	0.2	0.8	-0.6	-0.3	1.6	2.3
6	1.0	2.8	1.4	1.3	3.2	1.2	-0.2	0.4	-0.6	-0.4	1.4	1.3
7	0.8	3.7	2.0	1.1	1.7	0.6	2.0	0.2	-0.6	-0.4	1.2	1.2
8	1.0	4.3	1.8	1.2	1.2	0.4	12.2	0.2	-0.6	-0.5	1.1	1.0
9	1.2	5.8	1.6	1.0	0.9	0.7	17.7	0.2	-0.6	-0.5	1.0	1.0
10	1.2	6.6	1.5	1.0	0.8	0.7	18.4	0.1	-0.5	-0.5	1.0	1.0
11	1.0	4.3	1.8	1.0	0.6	0.6	4.8	0.0	-0.5	-0.6	1.0	0.9
12	0.8	3.3	1.8	1.0	0.6	0.5	3.2	0.0	-0.6	-0.6	1.6	0.7
13	0.8	2.8	1.6	1.0	0.5	0.3	3.1	0.3	-0.6	-0.6	3.8	0.6
14	0.8	3.0	1.4	0.9	0.5	0.2	2.9	0.2	-0.6	-0.6	4.6	0.6
15	0.7	4.1	1.2	0.9	0.4	0.0	2.0	0.0	-0.6	-0.6	2.6	0.7
16	0.8	2.9	1.2	0.9	0.3	0.0	3.0	0.1	-0.6	-0.6	1.5	0.6
17	2.4	2.6	1.1	0.8	0.3	0.0	4.4	0.1	-0.6	-0.6	1.0	0.6
18	2.4	2.2	1.4	0.8	0.2	0.1	2.7	0.1	-0.6	-0.6	0.8	0.6
19	2.1	2.1	1.7	0.8	0.2	0.2	1.8	-0.1	-0.6	-0.6	0.6	0.6
20	1.5	1.8	1.6	0.8	0.2	0.6	1.9	-0.2	-0.6	-0.6	0.5	0.6
21	1.2	1.6	1.4	0.8	0.2	1.6	1.6	-0.3	-0.5	-0.6	0.4	0.6
22	1.8	1.4	1.4	0.8	0.2	0.4	1.9	-0.3	-0.2	-0.5	0.4	0.6
23	6.3	1.6	1.4	0.6	0.2	0.5	2.4	-0.3	0.4	-0.2	0.3	0.5
24	9.8	1.6	1.4	0.7	1.1	0.3	2.4	-0.3	0.6	0.0	0.2	0.5
25	10.0	1.5	1.4	0.6	1.6	0.2	1.5	1.0	-0.1	0.0	0.2	0.4
26	5.1	1.4	1.4	0.6	0.6	-0.1	1.3	-0.1	-0.4	0.1	0.2	0.4
27	3.6	1.4	1.2	1.4	0.8	0.4	0.9	-0.3	-0.4	0.2	0.2	0.4
28	2.6	1.3	1.2	1.7	0.6	-0.1	0.8	-0.3	0.2	0.2	0.2	0.4
29	2.3	1.6	1.2	1.2	1.0	-0.2	0.8	-0.3	0.4	0.9	0.2	0.4
30	2.1	-----	1.2	0.8	0.4	-0.2	0.8	-0.4	0.3	0.6	0.2	0.3
31	1.8	-----	1.2	-----	0.4	-----	0.5	-0.4	-----	0.5	-----	0.2

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1	0.2	3.1	2.0	2.9	4.1	1.0	0.5	0.8	0.5	-0.5	0.0	1.1
2	0.2	4.5	1.8	4.3	3.2	1.0	0.4	0.8	0.4	-0.5	0.4	0.8
3	0.2	4.9	1.8	5.6	2.8	1.2	0.6	0.9	0.1	-0.5	0.4	1.2
4	0.3	3.2	2.0	8.0	2.5	1.4	0.6	0.8	0.2	-0.4	1.0	1.9
5	0.4	3.7	1.9	11.8	2.4	1.2	1.2	0.7	0.1	-0.5	0.4	2.6
6	0.4	4.1	9.0	17.2	2.2	1.0	0.6	0.6	0.0	-0.5	0.3	2.6
7	0.4	5.5	9.2	8.8	2.2	1.0	2.5	1.6	0.0	-0.5	0.2	1.5
8	0.4	5.0	5.5	5.7	2.0	0.8	1.8	1.4	0.0	-0.4	0.2	1.1
9	0.3	3.1	4.4	6.1	2.0	1.1	1.3	1.4	-0.2	-0.4	0.1	0.8
10	0.3	2.4	4.0	5.3	2.0	1.0	2.4	1.2	-0.2	-0.4	0.2	0.6
11	0.2	3.4	3.6	4.5	1.9	1.0	2.4	1.0	-0.2	1.4	0.1	0.6
12	0.2	4.0	6.4	4.0	1.9	0.8	1.6	0.8	-0.2	1.5	0.0	0.5
13	0.4	5.3	12.6	4.0	1.8	0.8	1.2	0.6	-0.2	1.4	0.0	0.5
14	3.0	4.0	10.0	4.6	1.9	0.6	0.8	0.5	-0.2	-0.4	0.0	1.8
15	3.7	2.6	8.4	4.0	2.4	0.6	0.6	0.4	-0.2	0.2	-0.1	1.8
16	2.8	2.6	6.8	4.0	1.8	0.5	0.5	0.4	-0.2	0.0	0.0	1.9
17	2.4	2.4	5.4	3.5	1.7	1.0	4.2	2.9	-0.3	0.0	0.1	1.6
18	4.0	2.1	6.1	2.2	1.5	1.0	2.4	1.2	-0.3	-0.2	0.0	1.2
19	4.6	1.9	5.8	3.0	1.4	1.0	12.0	1.0	-0.3	-0.2	0.0	0.6
20	5.5	2.5	5.6	3.0	1.4	0.6	13.2	0.6	-0.4	0.0	0.0	0.8
21	7.5	2.5	5.0	2.8	1.4	1.4	10.3	0.6	-0.4	1.4	0.0	1.0
22	6.8	2.9	4.3	2.8	1.4	0.8	6.1	1.2	-0.4	0.8	0.0	2.0
23	3.9	5.1	4.5	2.7	1.4	0.6	4.4	1.1	-0.4	0.2	0.0	3.0
24	3.2	4.5	4.0	2.7	1.4	0.4	2.2	1.0	-0.3	0.0	-0.1	1.8
25	2.0	3.6	3.9	2.6	1.3	0.9	1.6	0.6	-0.2	0.0	-0.1	1.7
26	1.6	2.9	3.4	2.6	1.2	0.6	2.8	0.5	-0.3	0.0	-0.1	2.2
27	0.4	2.4	3.1	2.4	1.1	0.4	2.3	0.2	-0.4	0.0	0.5	2.0
28	1.1	2.0	3.0	2.1	1.0	0.3	1.4	0.2	-0.4	0.0	1.4	1.8
29	1.2	-----	2.8	2.0	1.0	1.0	1.2	0.2	-0.4	0.0	1.8	1.4
30	1.5	-----	2.7	2.2	1.0	0.8	1.1	0.2	-0.4	-0.1	1.5	2.0
31	2.0	-----	2.2	-----	1.1	-----	1.0	1.6	-----	-0.1	-----	1.0

¹U.S. Geological Survey Records.

DAILY RIVER STAGES.

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*Apalachicola River system—Chattahoochee River, Oakdale, Ga.—Continued.*1898.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.8	1.5	0.4	5.5	1.8	0.2	0.0	1.3	2.1	1.4	2.1	2.7
2	0.6	1.3	0.4	3.4	1.6	0.3	0.1	1.0	19.0	1.5	2.0	2.4
3	0.6	1.0	0.6	2.6	1.6	0.2	-0.2	0.9	26.8	1.9	1.9	2.6
4	0.5	1.0	0.8	3.0	1.4	0.2	0.3	7.5	26.0	14.0	2.0	3.1
5	0.6	1.0	0.8	8.7	1.4	0.1	0.4	13.0	21.0	18.2	2.1	4.5
6	0.6	1.0	0.7	11.2	1.2	0.0	0.1	15.0	14.0	22.5	2.8	3.8
7	0.6	1.0	0.6	5.8	1.2	0.0	0.8	8.0	11.0	15.2	2.5	3.1
8	0.6	0.8	0.4	3.8	1.1	0.0	2.7	5.0	6.5	6.5	2.3	2.8
9	0.6	0.8	0.4	3.0	1.1	0.0	4.1	2.8	4.5	5.5	1.9	2.4
10	0.6	0.7	0.3	2.4	0.9	-0.1	3.8	3.3	4.1	4.5	1.8	2.1
11	0.6	0.7	0.3	2.3	0.9	-0.1	2.5	3.5	3.8	3.9	2.1	2.0
12	0.6	0.7	0.3	2.0	0.9	-0.2	1.3	4.8	3.0	3.5	2.8	2.3
13	0.8	0.6	0.3	1.8	1.2	0.0	0.8	3.1	3.2	3.3	2.1	2.1
14	1.2	0.6	0.5	1.8	1.0	0.1	1.5	6.5	2.9	3.0	2.6	2.0
15	1.0	0.6	1.0	1.9	0.8	0.1	3.2	4.5	2.8	2.9	3.1	1.9
16	0.8	0.6	1.4	1.6	0.8	0.9	3.1	1.9	2.6	2.7	2.6	1.8
17	0.8	0.4	3.5	1.4	0.7	0.0	1.5	1.8	2.4	2.5	2.7	1.8
18	0.8	0.6	1.8	1.3	0.6	1.5	0.8	1.4	2.3	4.7	3.0	1.8
19	0.8	0.9	1.5	1.2	0.6	1.6	0.8	1.9	2.2	6.9	3.8	2.0
20	0.9	1.0	1.0	1.2	0.6	1.5	0.5	5.0	2.1	3.7	4.1	2.2
21	1.5	0.8	0.8	1.4	0.6	1.8	0.4	5.5	2.3	3.3	3.5	3.0
22	2.3	0.8	0.8	1.4	0.6	0.4	0.4	3.5	1.9	3.9	2.8	2.5
23	1.5	0.6	0.6	1.4	1.2	0.1	0.5	2.9	2.1	4.3	2.5	6.1
24	1.4	0.6	0.4	3.6	1.2	0.0	11.4	1.8	4.3	3.1	3.8	7.5
25	3.0	0.4	0.4	4.6	1.2	-0.2	5.3	1.8	2.2	2.8	2.8	4.8
26	7.7	0.4	0.4	2.6	0.8	-0.2	2.4	1.9	2.0	2.5	2.5	3.1
27	6.8	0.4	0.4	2.2	0.8	-0.2	2.8	6.5	1.8	2.4	2.3	2.8
28	5.0	0.6	1.2	2.8	0.6	0.0	5.4	3.3	1.7	2.4	2.1	2.5
29	4.4	-----	2.5	2.4	0.3	-0.1	4.8	1.8	1.6	2.3	2.8	2.0
30	3.0	-----	6.3	1.8	0.3	-0.1	3.4	2.2	1.5	2.4	3.0	1.8
31	2.7	-----	8.4	-----	0.2	-----	2.8	2.2	-----	2.3	-----	2.1

1899.²

1	3.2	4.1	8.8	12.0	3.7	2.4	1.5	1.7	4.6	0.4	0.6	1.3
2	3.8	3.5	5.8	6.8	3.4	2.4	1.4	1.4	2.9	0.1	0.5	1.8
3	2.5	4.8	5.2	5.5	3.4	2.3	1.3	1.2	2.1	0.1	0.5	1.5
4	2.4	3.9	4.9	6.8	3.4	2.1	1.2	1.1	1.9	-----	0.5	1.4
5	2.1	5.5	7.1	5.5	3.5	2.0	1.2	1.1	1.6	-----	0.4	1.1
6	2.8	9.0	7.5	4.9	4.1	2.0	1.4	1.0	1.0	0.6	0.4	0.9
7	5.8	15.0	5.4	5.5	3.6	2.0	1.4	0.9	0.9	1.6	0.4	0.8
8	5.1	20.5	4.9	6.8	3.4	2.0	1.8	0.8	0.8	1.5	0.4	0.8
9	4.2	12.4	4.5	6.5	3.2	2.0	1.4	0.7	0.7	2.3	0.4	0.8
10	3.7	8.5	4.2	6.1	3.1	2.1	1.3	0.6	0.7	2.0	0.4	0.8
11	5.3	5.4	4.1	5.8	3.0	2.2	1.3	0.6	3.0	1.2	0.4	0.7
12	3.8	4.5	4.0	4.8	3.0	2.8	1.1	0.5	1.1	1.0	0.7	2.2
13	3.2	3.9	4.0	4.2	2.9	2.8	1.1	0.5	0.9	0.8	0.5	6.4
14	3.5	3.1	5.2	4.2	2.8	4.0	0.9	0.5	0.8	-----	0.5	3.7
15	4.5	3.6	9.0	4.1	2.8	2.9	0.8	0.5	0.7	-----	0.5	2.4
16	3.9	4.6	20.5	4.0	2.7	2.2	0.8	0.6	0.6	-----	0.6	1.8
17	3.8	6.2	23.2	4.2	2.6	2.0	0.8	0.6	0.5	0.5	0.6	1.6
18	3.5	5.1	10.0	4.0	2.5	2.0	1.0	0.6	0.3	0.6	0.5	1.3
19	3.1	4.6	9.5	4.0	2.6	2.0	1.3	0.5	0.2	0.6	0.5	1.1
20	2.9	3.9	14.0	4.0	2.5	1.9	1.0	0.4	0.2	1.8	0.4	1.2
21	2.8	4.2	7.8	3.8	2.4	1.8	1.0	0.4	0.1	0.9	0.4	1.1
22	2.5	4.2	6.2	3.6	4.5	1.7	3.8	0.4	0.0	0.7	0.9	1.1
23	2.9	4.0	8.5	3.8	2.6	1.6	2.3	0.3	-0.1	0.5	2.0	3.4
24	3.2	3.9	8.0	4.0	2.5	1.6	1.9	0.2	-0.2	0.5	2.4	5.5
25	3.1	3.6	5.5	6.2	2.4	1.8	0.8	0.1	-0.3	0.5	1.7	4.6
26	3.2	9.2	6.1	7.0	2.2	2.0	2.1	0.1	-0.5	0.4	3.0	3.4
27	2.7	21.1	5.2	5.2	2.2	2.2	2.1	5.2	-0.6	0.5	2.8	2.4
28	2.4	17.9	5.1	4.2	2.1	2.0	5.9	3.4	-0.6	0.5	2.7	2.0
29	2.2	-----	6.9	4.0	2.2	1.8	3.4	1.4	-0.6	0.9	2.1	2.1
30	2.5	-----	5.4	3.8	5.1	1.6	3.3	3.2	-0.6	0.7	1.8	1.8
31	3.6	-----	11.3	-----	2.4	-----	2.2	2.8	-----	0.6	-----	1.7

¹U. S. Geological Survey Records.²U. S. Geological Survey Records, January to June, inclusive.

DAILY RIVER STAGES.

Apalachicola River system—Chattahoochee River, Whitesburg Ga.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.1	2.3	1.3	1.2								
2	2.3	2.2	1.2	1.1								
3	1.9	2.1	1.2	2.3								
4	1.7	2.0	1.1	1.9								
5	1.6	1.9	1.2	1.7								
6	1.5	3.2	1.3	1.6								
7	1.4	3.5	1.7	1.5								
8	1.7	3.1	3.1	1.5								
9	1.9	5.0	2.8	1.4								
10	2.0	5.4	2.2	1.4								
11	1.8	5.1	2.4	1.4								
12	1.6	3.8	3.2	1.3								
13	1.4	3.1	2.7	1.3								
14	1.3	3.2	2.3	1.2								
15	1.2	2.8	2.0	1.2								
16	1.3	2.7	1.9	1.2								
17	2.1	2.5	1.8	1.2								
18	1.8	2.1	1.7	1.1								
19	1.5	1.9	1.8	1.1								
20	1.3	1.7	2.1	1.1								
21	1.3	1.6	1.9	1.1								
22	1.6	1.5	1.8	1.0								
23	5.7	1.4	1.7	1.0								
24	9.8	1.3	1.6	1.0								
25	10.1	1.3	1.8	0.9								
26	5.7	1.2	1.6	1.1								
27	3.4	1.2	1.5	1.2								
28	2.9	1.1	1.4	1.3								
29	2.8	1.2	1.3	1.1								
30	2.7		1.3	1.2								
31	2.5		1.2									

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.9	2.0	2.7	1.1					1.3	0.8	0.9	0.9
2	0.9	3.0	2.1	2.1					1.3	0.8	1.0	0.9
3	0.8	2.9	1.8	4.0					1.2	0.8	1.0	1.0
4	0.7	2.8	1.7	5.2					1.2	0.8	1.0	1.1
5	0.7	2.6	1.2	7.8					1.2	0.8	1.0	1.1
6	0.6	2.7	3.9	10.7					1.1	0.8	1.0	1.1
7	0.6	2.6	9.2	9.9					1.1	0.8	0.9	1.1
8	0.6	2.8	7.5	5.7					1.1	0.7	0.9	1.0
9	0.5	2.9	3.5	3.2					1.1	0.7	1.1	1.0
10	0.5	2.7	3.2	5.1					1.0	0.7	1.1	1.0
11	0.4	2.7	3.0	4.8					1.0	0.7	1.1	1.0
12	0.4	4.5	5.4	4.6					1.0	0.7	1.1	1.0
13	0.4	3.9	10.1	4.2					0.9	0.7	1.0	1.0
14	0.4	3.4	12.5	3.6					0.9	0.7	1.1	0.5
15	0.3	2.8	10.2	2.8					0.9	0.7	1.1	0.5
16	0.5	2.7	5.5	3.1					0.9	0.8	1.1	0.5
17	1.7	3.0	4.4	2.9					0.9	0.8	0.9	0.6
18	2.5	2.8	3.9	2.6					0.8	0.8	0.9	0.7
19	3.0	2.6	3.3	2.1					1.1	0.9	0.9	0.7
20	3.5	2.4	4.0	1.8					1.0	0.9	0.9	0.6
21	6.0	2.5	4.2	1.6					1.0	0.9	0.8	0.7
22	6.8	2.8	4.3	1.5					1.0	0.9	0.8	0.7
23	4.3	3.3	5.0	1.4					1.0	1.2	0.8	0.7
24	2.6	4.5	5.5	1.3					1.0	1.2	0.8	0.8
25	2.2	5.7	4.5	1.3					0.9	1.2	0.8	0.9
26	2.0	5.2	3.4	1.2					0.9	1.0	0.8	0.9
27	1.9	4.5	2.5	1.1					0.9	1.0	1.1	1.5
28	1.9	3.2	2.0	1.0					0.9	1.0	1.6	1.5
29	1.8		1.6	1.0					0.8	0.9	1.9	1.5
30	1.8		1.4	1.0					0.8	0.9	1.9	1.5
31	1.8		1.2						0.9			1.5

DAILY RIVER STAGES.

91

Apalachicola River system—Chattahoochee River, Whitesburg, Ga.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.5	1.7	0.8	4.0	.....	.....	.....	.....	.....	.....	.....	.....
2	1.4	1.5	0.8	2.0	.....	.....	.....	.....	.....	.....	.....	.....
3	1.4	1.5	0.8	1.0	.....	.....	.....	.....	.....	.....	.....	.....
4	1.4	1.3	0.5	1.0	.....	.....	.....	.....	.....	.....	.....	.....
5	1.4	1.0	0.5	6.0	.....	.....	.....	.....	.....	.....	.....	.....
6	1.4	1.0	0.5	8.0	.....	.....	.....	.....	.....	.....	.....	.....
7	1.2	1.0	0.5	4.0	.....	.....	.....	.....	.....	.....	.....	.....
8	1.2	1.0	0.5	3.0	.....	.....	.....	.....	.....	.....	.....	.....
9	1.2	0.4	0.6	3.0	.....	.....	.....	.....	.....	.....	.....	.....
10	1.2	0.4	0.6	2.0	.....	.....	.....	.....	.....	.....	.....	.....
11	1.2	0.4	0.6	2.0	.....	.....	.....	.....	.....	.....	.....	.....
12	1.3	0.4	0.6	1.6	.....	.....	.....	.....	.....	.....	.....	.....
13	1.3	0.3	0.6	1.6	.....	.....	.....	.....	.....	.....	.....	.....
14	1.3	0.3	0.6	1.6	.....	.....	.....	.....	.....	.....	.....	.....
15	1.3	0.3	0.4	1.0	.....	.....	.....	.....	.....	.....	.....	.....
16	1.4	0.3	0.4	1.0	.....	.....	.....	.....	.....	.....	.....	.....
17	1.4	0.5	0.4	1.0	.....	.....	.....	.....	.....	.....	.....	.....
18	1.4	0.5	0.2	1.0	.....	.....	.....	.....	.....	.....	.....	.....
19	1.4	0.5	0.2	1.0	.....	.....	.....	.....	.....	.....	.....	.....
20	1.7	0.5	0.2	1.0	.....	.....	.....	.....	.....	.....	.....	.....
21	1.7	0.5	0.2	1.0	.....	.....	.....	.....	.....	.....	.....	.....
22	1.7	0.6	0.3	1.0	.....	.....	.....	.....	.....	.....	.....	.....
23	1.7	0.6	0.4	1.0	.....	.....	.....	.....	.....	.....	.....	.....
24	1.7	0.6	0.4	2.0	.....	.....	.....	.....	.....	.....	.....	.....
25	1.8	0.7	0.4	3.0	.....	.....	.....	.....	.....	.....	.....	.....
26	1.8	0.7	0.4	3.0	.....	.....	.....	.....	.....	.....	.....	.....
27	1.6	0.8	0.4	3.0	.....	.....	.....	.....	.....	.....	.....	.....
28	1.6	0.8	0.4	2.6	.....	.....	.....	.....	.....	.....	.....	.....
29	1.9	.....	0.4	2.0	.....	.....	.....	.....	.....	.....	.....	.....
30	1.9	.....	0.2	1.6	.....	.....	.....	.....	.....	.....	.....	.....
31	1.9	.....	4.6	.....	.....	.....	.....	.....	.....	.....	.....	.....

DAILY RIVER STAGES.

*Apalachicola River system—Chattahoochee River, West Point, Ga.***1896.¹**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1								2.7	1.3	4.1	1.7	4.2
2								3.9	1.2	4.0	2.0	4.0
3								4.5	1.1	3.0	3.2	3.8
4								6.0	1.0	2.6	8.0	3.6
5								5.5	1.0	2.4	9.2	3.4
6								5.0	1.0	2.0	7.6	3.2
7								3.6	1.0	1.9	5.5	3.1
8								3.2	1.0	1.5	4.3	3.1
9								2.8	1.1	1.3	3.4	3.0
10								2.6	1.0	1.2	2.8	3.0
11								2.2	1.0	1.2	2.0	2.9
12								2.0	0.8	1.2	2.2	2.8
13								1.8	0.8	1.2	6.3	2.6
14								1.7	0.9	1.2	5.0	2.5
15								1.6	0.9	1.2	4.5	3.0
16								1.6	0.8	1.2	3.3	3.1
17								1.6	0.8	1.1	3.0	3.0
18								1.6	0.8	1.1	2.6	3.0
19								1.5	0.8	1.1	2.6	2.9
20								1.4	0.8	1.1	2.4	2.8
21								1.4	0.8	1.2	2.2	2.7
22								1.4	3.3	1.1	2.2	2.6
23								1.3	3.0	1.5	2.2	2.4
24								1.2	2.5	1.8	2.2	2.2
25								3.0	2.0	1.8	2.9	2.2
26								2.0	1.7	1.7	1.9	2.1
27								1.8	1.6	1.6	1.8	2.1
28								1.8	1.4	1.6	2.0	2.0
29								1.6	3.6	1.5	4.0	2.0
30								1.5	4.2	1.5	4.3	2.0
31								1.4		1.4		1.9

1897.¹

1	1.9	3.2	3.6	4.0	3.9	2.6	1.9	2.9	1.8	1.1	1.3	2.5
2	1.9	4.4	3.6	4.0	4.0	2.7	1.9	3.0	1.7	1.1	1.3	2.5
3	1.9	7.0	3.5	4.0	3.8	2.8	2.0	3.2	1.6	1.0	1.3	2.5
4	2.0	7.4	3.5	4.4	3.8	2.8	2.3	2.8	1.6	1.0	1.5	2.4
5	2.0	7.1	3.6	8.5	3.6	2.9	3.0	2.8	1.6	1.0	2.3	2.6
6	2.0	6.0	4.1	10.2	3.6	3.0	3.5	2.5	1.6	1.0	2.0	2.8
7	2.0	6.0	11.0	11.0	3.6	2.8	2.5	2.4	1.5	1.0	1.8	2.8
8	2.0	5.2	9.3	10.5	3.6	2.7	3.0	2.2	1.5	1.0	1.6	2.6
9	2.0	5.0	7.1	8.0	3.6	2.6	3.0	2.0	1.4	1.0	1.7	2.6
10	1.9	4.7	5.5	7.1	3.5	2.6	2.9	1.9	1.4	1.0	1.9	2.5
11	1.9	4.9	5.3	6.5	3.5	2.6	2.9	2.9	1.4	1.2	1.9	2.4
12	2.0	7.1	6.2	6.3	3.6	2.6	2.8	3.0	1.4	1.5	1.7	2.4
13	2.0	6.5	10.7	6.0	3.8	2.6	2.4	2.7	1.4	3.0	1.7	2.5
14	2.1	6.1	14.1	5.8	3.6	2.5	2.2	2.3	1.3	2.9	1.6	4.3
15	2.2	4.7	12.9	5.7	3.4	2.4	2.0	2.2	1.3	2.5	1.6	3.8
16	4.0	4.6	11.0	5.5	3.2	2.4	1.8	2.0	1.3	1.9	1.6	3.5
17	4.0	4.6	10.9	5.3	3.1	2.5	1.9	3.0	1.2	1.8	1.5	3.1
18	3.4	4.5	10.0	5.0	3.0	2.9	2.9	3.5	1.2	1.6	1.5	3.0
19	3.3	4.3	9.0	4.5	3.0	2.7	3.0	4.0	1.2	1.6	1.6	3.1
20	5.4	4.4	8.5	4.2	2.9	2.6	9.0	4.5	1.2	1.4	1.4	3.9
21	8.2	4.4	8.3	4.2	2.8	2.6	11.4	6.2	1.2	1.5	1.3	4.0
22	7.3	4.4	8.1	4.1	2.8	2.6	8.0	8.1	1.2	1.6	1.2	3.8
23	6.5	4.8	8.0	4.0	2.8	2.5	5.4	7.0	1.2	1.4	1.1	3.7
24	4.8	5.6	8.5	3.8	2.7	2.5	4.4	6.1	1.2	1.4	1.0	3.7
25	3.7	5.5	7.6	3.8	2.7	2.5	4.2	3.5	1.2	1.3	1.0	3.6
26	3.5	4.0	5.0	3.7	2.7	2.6	4.1	2.8	1.2	1.3	1.1	3.6
27	3.2	3.9	5.0	3.6	2.7	2.3	4.0	2.4	1.2	1.2	1.9	3.5
28	3.0	3.8	4.7	3.6	2.6	2.2	3.6	2.1	1.1	1.2	2.6	3.2
29	3.0		4.5	3.6	2.6	2.0	3.5	2.1	1.1	1.4	2.6	2.8
30	3.0		4.3	3.8	2.6	1.9	3.0	1.9	1.1	1.4	2.5	2.6
31	3.2		4.0		2.6		2.8	1.9		1.3		2.5

¹ U. S. Geological Survey Records.

DAILY RIVER STAGES.

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*Apalachicola River system—Chattahoochee River, West Point, Ga.—Continued.*1898.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.4	3.0	2.3	6.3	3.2	1.7	1.2	3.4	3.8	1.8	3.4	3.6
2	2.4	2.9	2.3	5.1	3.2	1.6	1.2	2.9	3.9	1.8	3.4	3.6
3	2.2	2.8	2.3	3.4	3.2	1.6	1.1	3.0	12.0	2.9	3.4	5.2
4	2.2	2.6	2.8	3.2	3.0	1.6	1.1	6.0	14.5	5.6	3.3	5.0
5	2.2	2.2	3.1	7.0	2.8	1.5	1.0	7.6	15.3	11.0	3.3	4.0
6	2.2	2.2	3.2	9.2	2.6	1.5	2.2	9.2	18.2	14.5	3.4	4.0
7	2.2	2.2	3.0	9.5	2.4	1.4	2.4	8.2	17.5	12.0	3.5	4.0
8	2.2	2.1	2.9	8.2	2.3	1.4	2.7	6.3	9.0	13.0	3.6	3.8
9	2.2	2.1	2.5	6.0	2.3	1.4	3.5	5.1	6.2	10.0	3.6	3.8
10	2.1	2.1	2.2	5.4	2.3	1.4	4.0	4.3	4.5	7.5	3.8	3.7
11	2.2	2.1	2.1	5.0	2.2	1.4	3.3	8.0	4.0	4.1	3.8	3.6
12	3.0	2.1	2.1	3.5	2.2	1.4	3.0	8.4	3.8	3.9	3.8	3.6
13	2.8	2.0	2.1	3.0	2.2	1.6	2.8	6.8	3.6	3.2	3.8	3.6
14	2.6	2.0	2.1	2.8	2.2	1.6	2.7	5.2	3.4	3.2	3.8	3.4
15	2.6	2.0	3.3	2.6	2.2	1.9	3.0	4.6	3.4	3.2	3.9	3.4
16	2.8	2.0	3.2	2.4	2.2	2.0	3.3	4.0	3.4	3.0	5.6	3.4
17	2.9	2.0	3.0	2.4	2.2	1.8	4.0	4.1	3.2	3.0	5.8	3.4
18	3.0	2.1	2.8	2.4	2.2	1.8	3.6	5.0	3.0	5.0	5.0	3.3
19	2.8	2.6	2.6	2.4	2.1	1.7	3.0	4.2	2.4	5.5	5.0	3.3
20	2.7	2.6	2.4	3.0	2.1	1.6	2.7	3.8	2.0	5.4	4.9	3.2
21	2.8	2.5	2.2	2.8	2.1	1.5	2.2	3.5	1.9	4.9	4.8	3.2
22	3.2	2.5	2.2	2.6	2.1	1.8	2.3	3.4	1.9	4.8	4.3	4.0
23	2.8	2.5	2.2	4.0	2.0	2.0	2.4	3.3	1.9	4.5	4.0	5.6
24	2.9	2.5	2.2	7.0	1.9	2.1	4.0	3.2	2.9	4.5	3.7	5.0
25	2.9	2.4	2.1	5.3	1.8	2.0	7.6	3.2	3.0	4.0	3.7	4.5
26	3.0	2.4	2.1	4.0	2.5	2.1	5.5	3.2	2.8	3.6	3.7	4.4
27	6.0	2.3	2.1	3.6	2.0	2.2	4.1	5.6	2.5	3.4	3.6	4.2
28	5.5	2.3	2.1	3.4	1.8	1.8	4.0	10.6	2.0	3.4	3.6	4.0
29	4.0	-----	3.2	3.4	1.7	1.5	5.6	5.4	1.9	3.4	3.8	3.8
30	3.6	-----	4.1	3.2	1.7	1.4	6.0	3.8	1.8	3.4	3.7	3.8
31	3.1	-----	4.3	-----	1.7	-----	4.2	3.5	-----	3.4	-----	3.8

1899.²

1	4.3	4.5	14.5	10.0	4.3	3.6	2.8	3.1	2.5	2.1	2.1	4.4
2	4.4	4.6	12.7	7.7	4.2	3.3	2.7	2.6	2.1	2.1	2.1	4.3
3	4.2	10.2	6.5	7.0	4.2	3.2	2.5	2.5	2.0	2.2	1.9	3.4
4	4.1	8.3	5.8	7.2	4.1	3.1	2.4	2.3	2.3	2.4	1.9	3.4
5	4.0	7.2	6.4	6.7	3.9	3.0	2.4	2.3	2.2	2.5	1.9	3.4
6	4.0	5.8	7.0	6.4	3.8	3.0	2.4	2.8	2.0	2.1	1.9	3.2
7	5.5	9.1	6.1	6.9	3.8	2.9	2.4	2.8	2.0	2.3	1.9	3.1
8	5.8	13.3	5.6	7.3	3.7	2.8	2.8	2.7	2.0	2.3	1.9	3.1
9	5.5	13.0	5.2	6.8	3.8	2.8	2.9	2.4	2.1	2.2	1.9	2.9
10	5.6	9.0	5.0	6.3	4.0	2.8	2.1	2.8	2.1	1.9	1.9	2.6
11	7.0	6.3	4.9	6.0	3.8	3.1	3.0	2.7	2.0	1.7	1.9	2.4
12	8.8	5.9	4.8	5.4	3.7	3.2	2.5	2.4	2.1	1.8	1.9	3.5
13	5.9	5.2	4.9	5.2	3.6	3.8	2.5	2.3	2.2	1.9	1.9	4.0
14	5.4	4.8	5.0	5.1	3.6	4.0	2.3	2.4	2.2	2.3	1.9	4.6
15	6.0	5.0	5.1	5.0	3.6	4.1	2.3	2.0	2.3	3.0	2.1	4.1
16	5.2	5.2	10.5	5.0	3.6	3.6	2.1	2.5	2.4	3.1	2.2	3.6
17	5.0	5.1	12.3	5.0	3.6	3.1	2.3	3.0	2.5	2.7	2.2	3.1
18	4.9	4.6	13.5	4.9	3.5	3.0	2.3	3.2	2.2	2.6	2.1	3.0
19	4.8	4.3	12.1	4.8	3.2	2.9	2.5	3.4	2.3	2.8	2.1	2.8
20	4.5	4.0	10.8	4.6	3.1	2.8	2.7	3.0	1.8	2.4	2.1	2.8
21	4.2	3.8	8.2	4.4	3.1	2.8	3.0	2.6	1.6	2.0	2.1	2.8
22	4.1	3.6	7.5	4.6	3.0	2.6	3.6	2.0	1.5	2.0	1.9	2.8
23	4.0	3.6	6.9	4.6	3.0	2.5	4.2	2.2	1.2	2.0	2.0	3.2
24	3.9	3.5	7.2	4.7	4.8	2.7	4.7	2.0	1.1	2.4	2.2	6.0
25	3.6	3.5	7.0	4.8	4.1	2.9	3.8	1.9	1.2	2.3	3.0	5.7
26	3.6	3.5	6.5	5.6	3.8	3.4	3.0	2.5	1.3	2.3	3.1	5.5
27	3.5	10.7	6.2	6.0	3.6	3.5	3.2	3.1	1.8	2.4	3.4	4.1
28	3.6	15.2	6.2	5.1	3.4	3.2	5.9	3.6	1.9	2.4	3.2	3.6
29	3.8	-----	6.8	5.0	3.3	3.0	2.3	3.9	1.9	2.1	3.5	3.4
30	4.0	-----	6.3	4.7	3.2	3.2	2.9	4.1	1.9	2.2	4.2	3.3
31	4.8	-----	7.2	-----	4.0	-----	2.7	3.8	-----	2.1	-----	3.2

¹ U. S. Geological Survey Records.² January and February from U. S. Geological Survey Records.

DAILY RIVER STAGES.

Apalachicola River system—Chattahoochee River, Columbus, Ga.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.5	2.5	3.0	1.8								
2	3.2	2.3	2.7	3.7								
3	2.9	2.2	2.6	3.2								
4	2.6	2.2	2.3	3.0								
5	2.0	2.6	2.1	2.7								
6	1.2	11.0	2.0	2.3								
7	0.8	10.2	5.7	2.0								
8	1.0	8.3	7.0	1.9								
9	2.2	13.0	5.2	1.7								
10	1.7	10.6	3.5	1.6								
11	1.2	8.9	5.3	1.6								
12	1.0	6.7	6.8	1.3								
13	0.9	5.0	5.5	1.2								
14	0.8	7.0	4.6	1.1								
15	0.6	6.1	3.4	1.0								
16	1.0	4.8	2.6	1.0								
17	4.8	4.0	2.6	0.9								
18	4.4	3.5	2.5									
19	3.1	3.0	3.0									
20	2.7	2.8	4.3	0.7								
21	2.2	2.5	3.7	0.7								
22	3.0	2.3	3.0	0.6								
23	12.5	2.1	2.9	0.6								
24	13.6	2.0	2.7	0.5								
25	13.3	1.9	3.3	0.4								
26	11.4	1.6	3.0	0.4								
27	7.8	1.6	2.8	0.6								
28	5.0	1.6	2.6	0.8								
29	3.8	2.8	2.4	0.7								
30	3.0		2.1	0.1								
31	2.7		1.9									

1897.

1	0.5	1.6	3.0	4.2			0.9	1.6	0.8	-0.1	-1.2	1.4
2	0.5	5.0	2.9	7.0			1.1	1.4	0.6	-0.1	-1.4	1.6
3	0.4	6.0	2.9	7.8			1.2	1.2	0.5	-1.2	-0.9	1.6
4	0.4	4.8	3.8	10.6			3.0	0.9	0.5	-1.3	-0.9	1.7
5	0.5	5.4	3.6	13.0			2.5	0.8	0.4	-1.3	-0.7	1.7
6	0.5	4.4	3.4	14.7			2.3	0.6	0.3	-1.3	-0.5	1.7
7	0.5	4.7	19.2	15.5			2.0	2.0	0.3	-1.3	-0.4	1.6
8	0.4	4.2	17.8	15.0			1.8	2.5	0.2	-1.4	-0.4	1.6
9	0.4		14.3	11.3			1.6	2.4	0.1	-1.4	-1.0	1.6
10	0.4	4.0	9.0	10.9			1.6		0.9	-1.5	-1.0	1.5
11	0.4	9.0	5.4	8.8			2.0	2.6	0.9	-1.5	-0.9	1.5
12	0.4	14.5	4.8	7.0			2.1	3.0	0.6	-1.5	-0.9	1.4
13	0.4	12.9	18.8	6.2			2.7	2.2	0.4		-0.7	1.4
14	0.3	9.2	28.6	5.9			2.1	1.8	0.2		-0.5	1.5
15	0.3	7.0	28.0	5.4			1.8	1.3	0.4		-0.3	2.6
16	2.5	7.9	19.7	8.0			1.6	1.0	0.6	-1.5	-0.1	2.4
17	2.8	6.6	14.0	6.9			1.4	0.8	0.4	-1.3	-0.2	2.4
18	2.8	5.8	9.8	6.3			0.8	1.8	0.2	-1.3	-0.4	2.2
19	3.0	4.5	8.0	5.0			0.6	6.4	-0.9	-1.0	-0.3	1.9
20	3.2	3.7	10.1	4.8			4.1	7.8	-0.7	-1.0	-0.4	1.7
21	8.5	3.6	9.0	4.4			10.0	6.0	-0.5	-1.0	-0.4	1.6
22	12.8	3.3	11.4	4.0			11.0	5.2	-0.4	-1.0	-0.4	1.4
23	9.5	4.5	19.8	4.0			10.0	4.6	-0.4	-1.1	-0.5	1.3
24	6.0	6.0	18.6	3.8			5.7	4.0	-0.3	0.1	-0.5	1.3
25	4.0	7.7	14.8	3.7			4.6	3.6	-0.3	0.1	-0.5	1.8
26	3.3	9.0	11.0	3.6			3.9	3.3	-0.3	0.1	0.2	1.8
27	2.6	7.4	8.2	3.6			3.5	3.0	-0.2	0.1	0.8	2.4
28	2.0	5.8	5.7	3.5			3.7	2.6	-0.2	-0.1	1.0	2.6
29	1.8		4.0	3.5			4.0	2.0	-0.1	-0.2	1.0	2.7
30	1.5		4.0	4.0			2.4	1.5	-0.1	-0.3	1.4	2.5
31	1.3		4.0				2.0	1.0		-0.4		2.0

DAILY RIVER STAGES.

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Apalachicola River system—Chattahoochee River—Columbus, Ga.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	2.5	0.5	4.3	2.5	—0.4	—0.3	6.2	5.0	7.0	.....	.....
2	1.6	2.2	0.5	5.4	2.2	—0.4	—0.5	5.9	3.9	6.5	.....	.....
3	1.3	2.0	0.4	4.2	2.0	—0.4	—0.6	6.5	11.8	17.2	.....	.....
4	1.2	1.7	1.0	3.7	1.8	—0.3	—0.7	9.6	18.4	26.4	.....	.....
5	1.0	1.6	3.0	8.3	1.6	—0.3	—0.7	15.5	22.0	23.0	.....	.....
6	1.0	1.3	2.2	13.0	1.5	—0.3	—0.7	12.0	25.2	17.8	.....	.....
7	0.9	1.1	1.0	11.3	1.5	—0.2	2.6	12.6	25.6	15.3	.....	.....
8	0.9	1.0	0.9	7.1	1.3	—0.2	1.3	9.7	14.5	9.1	.....	.....
9	0.8	0.9	0.8	5.5	1.1	—0.1	1.6	7.0	8.3	8.2	.....	.....
10	0.8	0.8	0.8	4.0	0.9	—0.1	2.0	5.8	6.0	7.7	.....	.....
11	0.8	0.8	0.7	3.2	0.8	—0.1	2.6	10.3	5.2	7.0	.....	.....
12	0.7	0.7	0.7	2.8	0.6	—0.1	3.3	12.0	4.4	6.4	.....	.....
13	0.7	0.7	0.6	2.6	0.5	—0.1	2.8	13.2	3.8	6.0	.....	.....
14	1.2	0.7	0.6	2.4	0.5	0.6	3.0	10.0	3.0	5.2	.....	.....
15	1.2	0.6	2.3	2.2	0.4	1.1	4.2	7.6	2.8	4.9	.....	.....
16	1.6	0.6	3.0	2.1	0.4	1.6	7.0	5.9	2.6	4.7	.....	.....
17	1.9	0.5	2.4	2.0	0.4	1.5	4.9	5.1	2.6	7.4	.....	.....
18	1.8	0.8	1.9	1.8	0.3	0.7	4.0	4.4	2.5	9.2	.....	.....
19	1.6	1.2	1.8	1.7	0.3	0.3	3.6	6.0	2.4	7.0	.....	.....
20	1.6	1.0	1.7	2.0	0.3	0.2	3.0	5.2	2.4	6.1	.....	.....
21	1.8	1.0	1.5	1.9	0.2	0.7	2.7	4.7	2.4	5.6	.....	.....
22	1.9	0.8	1.5	1.8	0.2	5.0	2.2	4.0	2.3	5.0	.....	.....
23	2.0	0.7	1.4	2.1	0.2	2.1	1.8	3.7	2.3	4.5	.....	.....
24	2.2	0.7	1.4	8.0	0.0	1.6	1.6	3.1	2.3	4.1	.....	.....
25	2.2	0.6	1.4	9.2	—0.9	1.3	5.3	2.9	2.3	3.9	.....	.....
26	2.4	0.6	1.3	6.0	—0.9	0.7	8.0	3.5	2.2	3.7	.....	.....
27	2.8	0.5	1.0	4.2	—0.7	0.5	4.9	5.0	2.2	3.4	.....	.....
28	5.8	0.5	0.8	4.0	—0.7	0.2	4.0	15.8	2.2	3.1	.....	.....
29	6.3	.....	0.8	3.7	—0.6	—0.1	3.6	11.6	2.1	2.9	.....	.....
30	3.6	.....	2.6	3.0	—0.6	—0.2	3.1	8.3	2.1	2.7	.....	.....
31	2.9	.....	4.2	.....	—0.5	.....	9.0	7.5	.....	2.5	.....	.....

DAILY RIVER STAGES.

Apalachicola River system—Chattahoochee River, Eufaula, Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		4.6	5.9	3.6								
2	3.6	4.4	5.6	6.5								
3	3.9	4.0	5.1	12.2								
4	3.8	4.1	4.8	8.6								
5	2.8	4.8	4.5	5.3								
6	2.6	10.6	4.1	5.1								
7	2.3	20.8	4.6	5.0								
8	3.0	18.0	4.4	4.9								
9	3.3	21.6	8.2	4.6								
10	4.3	20.2	10.0	4.3								
11	5.0	14.4	13.4	4.2								
12	4.7	10.3	16.1	3.4								
13	4.6	8.6	13.1	2.8								
14	4.5	13.4	8.6	2.6								
15	4.3	13.8	6.6	2.4								
16	4.3	10.0	6.3	2.4								
17	5.2	8.8	5.8	2.8								
18	5.4	8.2	5.5	2.0								
19	5.6	6.8	5.8	1.8								
20	5.3	6.2	6.5	1.6								
21	5.0	6.0	6.0	1.6								
22	5.5	5.3	5.4	1.5								
23	11.0	5.1	5.0	1.5								
24	18.3	4.6	4.8	1.8								
25	19.3	4.2	5.2	1.7								
26	16.5	4.1	8.3	1.6								
27	11.8	4.0	7.6	3.8								
28	8.8	3.9	5.1	3.9								
29	7.6	5.1	5.0	3.7								
30	6.4		4.6	4.0								
31	6.2		4.2									

1897.

1	1.2	3.5	8.0	8.0							-0.8	1.2
2	1.3	6.0	7.0	11.2							0.6	1.5
3	1.2	8.5	6.3	14.0							0.4	1.0
4	1.6	8.4	7.3	16.6							0.2	1.0
5	1.8	8.0	8.5	23.0							0.1	1.0
6	2.0	8.0	8.0	23.6							0.1	1.5
7	1.9	7.6	18.8	20.1							-0.2	1.3
8	1.8	7.0	25.0	20.0							-0.2	2.3
9	1.6	7.2	22.0	21.0							-0.3	2.1
10	1.5	8.2	15.0	22.0							-0.1	1.8
11	1.2	9.6	11.0	15.0							-0.2	1.2
12	1.0	28.8	9.6	13.6							-0.1	0.9
13	1.0	30.0	12.3	10.2							-0.2	0.7
14	1.1	25.8	26.0	9.3							-0.2	1.3
15	1.2	21.6	32.0	8.1							-0.4	1.6
16	2.0	23.8	35.0	7.8							-0.2	4.8
17	2.5	16.8	28.3	7.4							-0.2	3.6
18	4.8	12.8	25.6	7.2							0.0	2.6
19	4.7	9.6	14.6	7.0							-0.2	2.0
20	4.8	8.0	15.0	6.8							-0.2	1.8
21	5.6	7.4	13.0	6.8							-0.2	1.3
22	11.8	7.0	16.6	6.5							-0.3	1.0
23	12.1	6.2	46.0	6.3							-0.4	1.0
24	12.5	6.0	49.3	6.1							-0.4	1.5
25	8.0	7.2	41.0	5.9							-0.5	2.0
26	5.3	18.0	35.6	5.8							-0.4	2.2
27	5.6	14.6	18.5	5.6							-0.2	2.6
28	5.0	10.3	11.8	5.3							-0.2	2.5
29	4.6		9.6	5.0							0.8	3.0
30	3.4		8.7	5.6							1.6	2.5
31	3.0		8.4									2.0

DAILY RIVER STAGES.

97

Apalachicola River system—Chattahoochee River, Eufaula, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	3.1	1.0	5.8							4.5	7.0
2	1.3	2.6	1.0	9.0							3.6	6.2
3	1.0	2.1	1.0	7.3							3.2	10.0
4	1.0	2.0	1.2	5.2							3.0	12.2
5	0.8	1.8	4.0	14.5							3.0	13.5
6	1.0	1.3	4.8	18.0							3.0	11.0
7	1.2	1.0	4.0	17.5							3.5	9.3
8	1.0	1.0	3.2	13.3							3.5	8.5
9	1.0	1.0	2.2	11.0							4.0	7.3
10	1.0	1.0	2.0	7.2							4.0	13.0
11	0.8	1.0	2.0	5.0							4.6	12.2
12	1.0	1.0	1.6	4.5							6.0	9.6
13	1.5	1.0	1.2	4.0							5.6	8.5
14	2.0	1.0	1.0	4.0							12.0	6.9
15	1.9	1.0	1.0	3.5							11.0	6.2
16	2.0	1.0	2.0	3.0							9.0	5.4
17	2.0	0.9	3.0	3.0							15.0	5.0
18	1.8	1.0	2.5	2.6							15.6	5.0
19	1.5	1.1	2.0	2.0							24.6	5.0
20	1.5	2.0	3.0	3.0							20.0	6.5
21	1.2	2.2	2.5	3.0							15.5	14.6
22	2.0	2.0	2.2	3.0							10.6	13.0
23	2.8	1.8	1.5	2.5							11.0	16.5
24	2.9	1.2	1.5	7.0							9.6	14.2
25	3.0	1.0	1.0	10.5							8.3	12.0
26	3.2	0.8	1.0	10.0							7.7	10.6
27	3.0	1.0	1.0	7.0							6.9	8.8
28	5.6	1.2	0.7	5.6							6.3	7.0
29	8.0		1.0	4.0							5.9	6.9
30	5.5		1.0	3.6							7.0	6.0
31	4.2		3.0									6.2

1899.

1	8.0	14.5	29.0	12.0							1.3	3.2
2	8.2	15.0	28.2	15.0							1.0	2.5
3	7.5	16.2	25.8	14.2							0.9	2.5
4	7.0	20.0	17.0	10.5							0.7	3.5
5	6.2	19.3	11.6	9.2							0.6	3.0
6	5.8	15.0	12.3	11.0							0.3	2.5
7	12.0	22.0	13.0	10.4							0.2	2.3
8	12.2	25.8	11.9	11.0							-0.1	1.8
9	11.9	29.8	10.4	12.0							-0.2	1.6
10	11.0	27.9	9.3	10.8							-0.4	1.6
11	21.5	21.3	8.9	10.0							-0.5	1.3
12	24.0	14.6	8.2	8.8							-0.6	9.0
13	22.3	12.8	8.6	8.2							-0.2	10.8
14	15.0	10.8	8.0	7.8							-0.1	9.0
15	12.6	10.0	8.0	7.2							-0.2	7.0
16	11.2	15.2	11.0	6.8							1.0	6.9
17	14.0	17.3	14.8	6.7							2.0	6.0
18	14.6	14.9	20.0	7.0							1.8	3.9
19	12.2	13.2	25.0	9.2							1.6	3.0
20	9.6	11.9	28.2	8.0							1.0	2.9
21	8.5	10.8	23.5	7.6							0.7	2.7
22	8.0	11.5	19.3	7.1							0.7	2.6
23	7.5	11.0	14.6	6.6							0.8	2.4
24	7.2	10.2	13.2	7.0							0.6	3.0
25	7.0	9.0	13.0	7.6							1.0	6.6
26	7.0	8.4	12.5	7.6							3.0	10.0
27	6.5	17.0	10.5	7.9							6.9	8.6
28	6.9	25.5	9.9	8.6							7.0	6.6
29	8.0		9.9	7.9							5.9	5.0
30	7.9		10.5	7.2							4.0	4.0
31	7.0		10.8									3.5

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DAILY RIVER STAGES.

*Apalachicola River system—Flint River, Reynolds, Ga.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		4.0	4.6	2.4								
2		3.2	4.1	6.0								
3		3.8	3.6	6.6								
4		3.6	3.0	5.2								
5		6.0	2.8	4.1								
6		11.6	2.8	3.2								
7		13.2	5.5	2.7								
8		12.6	7.3	2.4								
9		13.0	6.5	2.2								
10		13.1	5.5	1.9								
11		12.0	6.2	1.9								
12		9.3	7.8	1.8								
13		8.4	7.6	1.7								
14		9.2	6.7	1.5								
15		9.2	6.0	1.4								
16		8.0	4.7	1.2								
17		6.9	4.4	1.1								
18		5.5	3.8	1.0								
19		4.8	4.4	0.9								
20		4.3	5.4	0.9								
21		4.1	5.2	0.7								
22		3.6	4.6	0.6								
23		3.3	3.8	0.5								
24		3.2	3.8	0.4								
25		3.1	4.0	0.4								
26		3.0	4.3	1.0								
27		3.0	3.7	2.2								
28		3.1	3.2	1.7								
29		4.4	3.0	1.5								
30			2.7	1.4								
31			2.5									

1897.

1	1.3	1.5	9.3	9.9							-1.4	-1.0
2	1.3	2.0	7.3	11.9							-0.4	-1.0
3	1.2	5.0	6.3	12.4							-0.5	-1.0
4	1.2	7.2	5.2	11.8							-0.6	-1.0
5	1.3	4.4	7.6	12.9							-0.6	-1.2
6	1.5	6.5	7.0	13.6							-0.6	-1.3
7	1.4	6.5	10.2	13.3							-0.6	-1.3
8	1.1	6.3	12.7	12.9							-0.6	-1.3
9	1.0	5.8	12.2	12.1							-0.6	-1.0
10	1.0	5.6	11.0	12.4							-1.0	-1.0
11	0.9	5.2	9.0	11.5							-1.0	-1.0
12	0.8	8.8	9.0	10.7							-1.0	-1.0
13	0.8	13.9	11.5	9.4							-1.0	-1.0
14	0.8	13.0	14.5	7.5							-1.0	-1.0
15	0.8	11.3	15.4	7.1							-1.0	0.6
16	1.0	9.9	14.4	8.9							-0.6	0.0
17	1.5	11.2	13.5	9.0							-1.0	0.0
18	1.7	11.0	12.7	8.0							-1.0	0.0
19	2.1	9.2	11.7	7.0							-1.0	0.0
20	2.3	8.7	11.9	5.9							-1.0	0.0
21	3.3	8.0	12.2	5.3							-1.0	0.0
22	5.2	5.5	11.1	5.0							-1.0	0.0
23	5.5	5.4	13.0	4.8							-1.0	0.0
24	5.6	5.7	14.0	4.4							-1.0	0.0
25	5.0	6.0	13.6	4.4							-1.0	0.0
26	3.9	8.0	13.0	4.3							-1.0	-0.1
27	3.3	11.5	12.2	3.9							-1.0	-0.1
28	3.0	10.0	10.6	3.8							-1.0	-0.1
29	1.9		8.6	3.7							-1.0	0.0
30	1.5		7.1	5.6							-1.0	0.0
31	1.5		6.0									0.0

DAILY RIVER STAGES.

99

*Apalachicola River system—Flint River, Reynolds, Ga.—Continued.***1898.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.0	0.8	-0.3	0.9							2.3	4.9
2	0.0	0.0	-0.3	0.8							1.8	4.8
3	0.0	-0.8	-0.4	0.7							1.5	7.0
4	-0.6	-0.8	1.0	0.7							1.3	10.0
5	-1.0	-0.8	1.4	1.0							1.3	11.8
6	-1.2	-0.8	2.0	9.5							1.2	10.7
7	-1.4	-0.7	2.9	11.1							1.2	8.8
8	-1.6	-0.7	2.0	10.0							1.2	7.2
9	-1.6	-0.7	1.0	7.5							1.3	6.5
10	-1.6	-0.6	0.8	5.1							1.3	6.1
11	-1.6	-0.6	0.2	3.5							2.7	6.5
12	-1.8	-0.6	0.1	2.3							3.8	6.0
13	-1.8	-0.6	0.0	2.0							4.2	5.0
14	-0.2	-0.6	0.0	2.0							7.5	3.6
15	-0.2	-0.5	0.0	1.9							7.9	4.0
16	0.8	-0.5	0.0	1.8							8.0	3.6
17	0.8	-0.3	0.0	1.2							12.5	3.3
18	0.3	-0.4	2.0	0.8							12.0	3.5
19	0.0	-0.5	1.0	0.5							12.2	3.2
20	0.0	0.0	0.6	0.4							12.0	3.3
21	0.6	0.2	0.2	0.3							10.0	7.5
22	0.4	0.2	0.0	0.2							9.0	8.3
23	0.2	-0.1	-0.9	0.2							8.1	7.4
24	0.0	-0.3	-0.8	5.0							7.5	8.0
25	0.7	-0.4	-0.5	6.5							5.2	7.7
26	1.2	-0.5	-0.3	6.0							4.5	7.0
27	1.8	-0.5	-1.0	5.5							4.0	6.0
28	2.0	-0.3	-1.0	3.4							3.6	5.2
29	1.5		-1.1	2.6							4.0	4.8
30	1.3		-1.2	2.4							5.0	4.0
31	1.2		0.2									4.0

1899.

1	4.8	9.9	12.8	7.0							-0.5	2.6
2	5.0	10.4	12.0	8.9							-0.6	1.5
3	5.9	12.0	11.6	9.9							-0.8	1.0
4	6.0	13.0	10.0	8.0							-1.0	1.0
5	5.0	12.6	9.0	7.0							-1.4	0.8
6	4.9	12.8	8.8	6.7							-1.8	0.6
7	10.6	13.6	8.6	6.3							-1.9	0.6
8	12.6	14.3	8.0	6.6							-2.0	0.6
9	11.0	13.9	7.0	6.7							-2.0	0.6
10	12.4	13.0	6.0	6.0							-2.1	0.6
11	12.0	12.2	5.8	5.5							-2.2	0.4
12	13.0	11.0	6.0	5.0							-2.2	6.0
13	12.9	10.0	6.2	4.5							-2.4	8.0
14	12.2	8.0	6.0	4.0							-2.6	6.0
15	12.0	7.0	5.5	4.0							-2.7	5.0
16	9.7	10.7	6.6	4.2							4.0	4.0
17	11.7	12.2	8.0	4.5							2.8	3.0
18	12.2	12.0	7.6	4.5							0.0	1.5
19	11.0	11.2	8.0	7.0							-1.0	1.0
20	10.0	10.0	12.0	6.4							-2.0	1.0
21	8.0	9.0	11.5	6.0							-2.0	1.0
22	7.0	9.2	9.9	5.0							-2.0	1.0
23	6.0	7.8	8.0	4.6							-2.7	1.0
24	6.0	7.4	7.0	4.3							-2.2	7.3
25	5.4	7.0	6.6	7.7							-2.2	6.5
26	5.6	6.0	6.0	8.0							3.5	5.8
27	5.1	10.4	5.6	7.0							5.5	5.4
28	5.0	13.2	5.0	6.0							5.2	5.0
29	5.0		6.0	5.5							4.4	4.5
30	5.7		7.0	4.0							3.0	4.0
31	5.5		6.5									3.5

DAILY RIVER STAGES.

*Apalachicola River system—Flint River, Albany, Ga.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.6	5.0	4.3									
2	2.2	4.0	4.8									
3	2.8	4.1	6.0									
4	2.9	4.2	4.2									
5	2.4	4.0	3.7									
6	2.0	5.8	4.0									
7	2.0	9.0	4.1									
8	1.8	11.0	4.2									
9	1.6	12.1	5.0									
10	2.1	13.8	6.0									
11	2.4	15.2	7.2									
12	2.6	16.0	12.0									
13	1.9	16.0	12.8									
14	2.0	16.0	14.0									
15	2.2	15.9	11.0									
16	1.7	15.0	10.5									
17	1.6	14.0	8.5									
18	2.6	12.0	7.0									
19	3.4	10.2	7.0									
20	3.6	9.0	7.0									
21	3.7	7.8	6.7									
22	3.9	7.5	6.0									
23	4.0	5.0	6.0									
24	4.2	5.0	6.0									
25	4.9	4.9	6.7									
26	5.6	4.2	6.5									
27	6.9	4.0	5.7									
28	7.0		5.4									
29	8.1	3.0	5.0									
30	8.7		4.8									
31	8.1		4.9									

1897.

1		2.7	9.4				1.3	1.6	2.2	1.4	0.9	1.1
2		3.9	11.5				1.5	1.4	2.0	1.5	0.9	1.4
3		4.3	12.4	13.8			1.6	1.2	2.0	1.6	0.9	1.5
4		5.7	11.8	13.6			1.0	1.1	2.2	1.7	1.1	1.6
5		6.5	10.0	13.7			1.0	1.0	1.9	1.5	1.5	1.5
6		6.7	8.9	14.2			1.7	1.0	1.7	1.5	1.4	1.5
7		7.2	7.6	14.7			4.2	0.9	1.6	1.4	1.3	1.6
8		7.5	8.7	15.1			5.5	1.2	1.5	1.2	1.1	1.6
9		8.3	9.0	15.2			5.7	1.4	1.5	1.2	1.1	1.6
10		9.2	9.0	16.5			5.1	2.4	1.5	1.1	1.1	1.7
11		10.0	10.0	17.9			3.0	2.5	1.4	1.0	1.1	1.7
12		11.5	11.0	17.9			2.5	2.6	1.3	0.8	1.2	1.6
13		12.2	11.8	17.9			3.2	2.7	1.3	1.0	1.2	1.6
14		13.0	12.3	15.8			4.2	2.5	1.6	1.0	1.3	1.7
15		14.1	11.6	14.3			5.3	1.7	1.7	1.1	1.2	2.0
16		16.5	10.8	14.3			5.1	1.4	1.9	1.2	1.2	2.6
17		17.8	10.4	10.6			3.2	2.6	2.0	1.2	1.1	2.6
18		19.6	14.9	9.1			2.8	2.2	1.8	1.3	1.3	2.6
19		19.0	19.8	9.1			2.0	2.8	1.6	1.1	1.1	2.7
20		16.4	22.8	8.9			1.7	3.6	1.8	1.1	1.1	2.8
21	4.6	15.0	22.7	8.9			2.0	4.1	1.8	1.0	1.2	2.9
22	3.9	13.0	22.7	8.9			2.4	5.1	1.6	1.0	1.1	2.9
23	2.6	11.0	24.1	8.3			3.6	6.8	1.5	1.2	1.1	3.2
24	2.5	10.4	28.7	6.1			4.2	6.3	1.5	1.4	1.3	2.9
25	2.9	9.0	31.6	5.1			5.3	6.5	1.4	1.2	1.2	2.9
26	2.7	8.9	30.9	4.7			4.9	7.0	1.3	1.2	1.1	2.8
27	2.7	7.1	28.0	3.7			3.7	7.2	1.1	1.0	1.1	2.6
28	2.5	6.9	26.5	3.7			2.0	6.7	1.1	0.8	0.9	2.3
29	2.4		25.5	3.4			1.9	4.1	1.1	0.9	0.9	2.3
30	2.9		23.6	3.4			1.8	3.2	1.3	0.9	1.1	2.3
31	2.8		21.3				1.7	2.2		0.9		2.3

DAILY RIVER STAGES.

101

Apalachicola River system—Flint River, Albany, Ga.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		2.2	1.7	1.2	4.3	1.6	3.7	3.4	16.0	0.8	2.0	6.1
2		2.0	1.6	1.4	3.7	1.4	3.6	4.0	17.2	0.8	2.0	7.4
3		1.9	1.9	1.3	2.9	1.0	3.4	5.8	16.3	1.0	2.0	8.2
4		1.9	2.2	1.3	2.6	0.9	3.4	6.4	15.1	2.0	1.7	9.6
5		1.9	2.8	1.2	2.3	0.8	3.0	7.0	14.3	5.4	1.4	10.3
6		2.1	3.2	2.3	2.0	0.6	3.0	6.7	13.0	6.5	1.4	9.4
7		2.0	3.7	3.6	1.8	0.5	2.6	6.8	12.2	7.8	1.3	9.6
8		1.8	4.0	5.2	1.8	0.5	2.5	7.5	10.3	9.5	1.2	9.8
9		1.8	4.0	6.1	1.6	0.5	2.4	8.0	9.6	10.5	1.4	10.3
10		1.8	3.2	7.0	1.6	0.5	2.4	8.4	10.5	12.0	1.6	11.1
11		1.7	2.8	6.1	1.6	0.6	2.3	8.3	10.8	12.0	2.2	12.0
12		1.7	2.4	5.0	1.4	0.7	2.4	7.6	10.8	10.1	2.6	11.5
13		1.7	2.2	4.6	1.3	0.7	2.6	5.5	10.8	8.8	3.4	10.3
14		1.7	2.1	3.9	1.3	0.7	3.0	5.7	8.6	8.8	3.6	9.4
15		1.5	1.9	3.6	1.2	0.8	3.5	6.1	6.9	8.0	4.2	8.3
16		1.5	1.9	3.2	1.2	0.9	4.0	7.4	5.1	7.2	5.7	7.8
17		1.4	1.9	2.0	1.2	0.9	4.5	8.9	4.0	6.6	7.2	6.7
18		1.8	2.3	1.9	1.1	0.9	4.6	9.9	3.6	6.6	8.7	5.4
19		2.0	2.6	1.9	1.1	0.9	4.6	9.7	3.0	7.0	10.2	4.6
20		1.8	2.7	1.8	1.0	1.2	4.4	8.9	2.7	7.3	12.5	5.5
21		1.6	2.4	1.6	1.0	1.4	4.2	7.3	2.7	7.6	13.8	6.3
22		2.0	2.1	2.0	1.0	2.0	4.0	5.0	2.6	7.0	15.6	7.4
23		2.3	2.0	2.0	1.1	2.6	3.8	4.5	2.5	6.0	16.1	8.0
24		2.2	1.8	2.0	1.2	3.0	3.8	3.6	2.3	5.2	15.3	8.0
25		2.0	1.7	2.6	1.2	3.0	3.5	2.8	2.3	4.6	13.0	8.0
26		1.9	1.6	3.0	1.6	3.1	3.3	2.0	2.0	4.2	13.0	7.7
27		1.7	1.5	3.9	1.7	3.2	3.0	2.9	1.7	3.0	12.0	7.3
28		1.7	1.5	4.6	1.8	3.4	2.8	6.1	1.4	2.5	10.2	7.3
29			1.3	5.4	1.8	3.5	2.6	10.5	1.0	2.0	8.0	7.0
30			1.2	5.4	1.8	3.6	2.4	13.1	0.8	2.0	6.7	6.8
31			1.2		1.9		2.8	14.0		2.0		6.8

1899.

1	6.7	8.3	14.3	8.3	5.4	2.4	1.5	4.3	0.1	-0.4	0.6	4.1
2	6.5	8.7	14.3	7.8	4.8	2.4	1.4	4.7	0.1	-0.1	0.7	4.3
3	6.4	8.9	15.1	7.0	4.4	2.2	1.2	4.9	0.3	0.2	0.7	4.5
4	6.4	9.2	15.9	6.7	4.2	2.0	1.1	4.9	0.4	0.2	0.7	4.5
5	7.3	9.6	15.9	6.4	4.1	2.0	1.1	4.1	0.6	0.2	0.7	4.5
6	9.2	10.8	14.3	6.9	4.0	2.0	1.2	3.9	0.6	0.3	0.7	4.2
7	10.0	11.6	13.0	7.5	3.8	2.0	1.3	3.5	0.4	0.9	0.6	3.9
8	10.0	12.3	12.1	8.0	3.3	1.9	1.3	3.3	0.3	1.3	0.6	3.8
9	9.8	13.8	11.8	7.4	3.0	1.7	1.4	3.0	0.3	1.6	0.6	3.7
10	11.6	14.6	11.5	7.8	2.8	1.3	1.4	2.6	0.5	1.9	0.5	3.5
11	13.5	15.9	10.9	8.0	2.6	1.2	1.2	2.6	0.5	2.4	0.5	3.3
12	16.7	17.3	9.4	7.4	2.4	1.2	1.0	2.3	0.3	2.4	0.4	3.7
13	16.8	18.2	8.3	6.9	2.0	1.2	0.9	2.2	0.2	2.4	0.2	3.9
14	17.0	19.9	8.0	6.5	1.8	1.2	0.8	1.8	0.1	2.7	0.3	4.1
15	17.0	21.8	7.8	5.0	1.7	0.9	0.6	1.5	0.3	2.8	0.6	4.3
16	17.5	19.0	8.3	5.0	1.5	0.7	0.5	1.2	0.5	2.8	0.7	4.3
17	18.0	17.6	8.9	5.0	1.3	0.5	0.5	1.0	0.5	2.9	0.8	4.0
18	18.8	16.9	9.6	5.2	1.2	0.5	0.5	1.0	0.6	3.0	0.8	3.8
19	17.3	15.2	10.4	5.3	1.0	0.4	0.6	1.0	0.6	3.0	0.9	3.6
20	16.9	14.6	11.3	5.5	0.9	0.4	0.6	0.8	0.4	2.9	0.8	3.3
21	15.3	14.3	12.8	5.5	0.9	0.4	0.7	0.7	0.3	3.2	0.8	3.1
22	14.1	13.9	11.9	5.5	0.9	0.3	1.1	0.7	0.3	3.4	0.9	3.4
23	12.3	13.2	11.6	5.5	1.0	0.3	1.3	0.9	0.1	3.2	0.9	3.5
24	11.0	13.0	11.5	5.9	2.3	0.6	1.5	1.1	-0.1	2.7	1.0	3.5
25	10.2	12.0	11.3	6.7	3.8	0.8	1.5	1.6	-0.2	2.7	1.2	3.7
26	9.4	11.3	10.6	6.9	4.3	0.9	1.6	0.5	-0.2	2.5	1.5	3.9
27	8.7	10.2	10.0	7.0	5.4	0.9	1.8	0.3	-0.3	1.7	1.6	4.0
28	8.2	12.3	9.4	6.3	4.3	0.8	2.4	0.3	-0.5	1.3	1.7	4.2
29	7.9		9.2	6.0	3.8	0.8	2.9	0.3	-0.5	0.9	2.2	4.5
30	7.9		8.9	5.8	3.0	1.3	3.5	0.2	-0.5	0.7	2.6	4.9
31	7.9		9.1		2.5		4.1	0.2		0.5		5.1

DAILY RIVER STAGES.

Cape Fear River system—Cape Fear River, Fayetteville, N. C.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.0	6.5	9.0	7.5	3.7	4.0	7.0	3.3	1.3	31.0	2.5	6.0
2	18.9	6.5	10.4	9.5	5.0	3.2	5.3	4.3	1.1	28.8	2.7	15.4
3	11.4	7.9	9.3	22.5	8.0	2.7	4.0	4.0	1.0	19.5	2.7	14.0
4	8.0	27.7	7.6	19.4	12.8	4.0	3.5	3.3	0.8	12.9	3.0	12.4
5	6.5	31.0	6.8	13.0	10.4	19.0	3.5	3.0	1.5	7.8	4.3	10.4
6	5.7	30.0	6.0	9.8	8.3	20.0	5.9	3.0	3.0	4.9	17.0	9.5
7	4.6	45.4	5.8	8.0	6.0	14.0	4.4	2.8	8.5	4.2	19.0	9.6
8	4.4	48.0	5.8	6.8	4.5	10.0	15.0	2.6	9.5	3.6	14.3	13.5
9	4.6	45.0	5.4	6.0	4.4	8.0	34.8	2.3	5.5	3.2	10.4	14.5
10	4.6	42.4	5.4	5.4	3.9	6.2	47.5	2.0	4.0	3.0	7.7	13.6
11	4.7	38.0	5.5	5.2	3.5	6.0	49.5	2.0	3.3	2.7	6.0	11.7
12	4.4	30.4	7.8	5.5	3.2	6.0	47.0	1.9	2.5	2.7	4.8	9.5
13	4.2	19.0	11.0	5.5	2.8	5.0	41.0	2.7	2.0	2.7	4.6	8.2
14	4.0	16.2	10.0	5.0	2.8	7.0	30.3	4.0	1.5	3.0	4.5	7.0
15	4.1	17.4	8.6	4.9	2.6	10.9	19.0	3.4	1.4	3.3	4.5	7.5
16	4.0	15.0	7.2	5.0	2.5	8.5	14.4	3.7	1.2	3.2	4.8	9.4
17	5.0	13.4	7.5	4.9	2.5	5.7	9.5	3.7	1.0	3.0	4.2	14.0
18	19.0	11.6	8.0	4.7	2.1	4.6	9.3	3.0	1.5	2.9	4.0	12.3
19	26.0	10.5	7.8	4.5	2.4	6.0	9.0	2.6	1.9	2.6	4.0	9.0
20	21.4	10.6	8.5	4.2	2.3	5.3	8.7	2.5	3.0	2.4	3.8	9.0
21	15.0	9.8	10.5	4.0	3.5	6.4	8.9	2.5	2.5	2.1	3.6	8.2
22	12.2	9.0	9.6	3.8	4.1	5.0	8.3	2.1	1.5	2.2	3.5	7.0
23	10.0	8.0	7.8	3.6	8.7	4.3	7.9	2.7	6.0	2.3	3.2	6.9
24	25.0	7.8	6.8	3.5	11.4	4.5	7.2	2.0	6.8	2.7	3.1	6.3
25	25.6	7.8	6.5	4.0	17.4	6.0	7.5	2.4	5.0	4.4	3.0	5.4
26	21.0	7.7	6.6	4.6	12.0	7.8	7.0	4.0	3.9	4.1	3.0	5.6
27	16.2	7.4	7.0	7.0	9.5	8.6	5.2	3.7	3.2	3.5	3.0	5.1
28	12.0	7.3	6.3	5.5	8.0	6.0	4.3	2.7	2.9	3.0	3.3	5.0
29	9.4	7.9	6.2	4.9	7.2	10.8	3.7	2.0	3.5	2.8	3.2	4.9
30	8.1	-----	5.8	4.1	6.0	8.9	3.6	1.9	8.0	2.5	3.5	4.8
31	7.0	-----	5.3	-----	5.0	-----	3.4	1.4	-----	2.5	-----	4.9

1897.

1	6.2	5.5	13.4	7.7	6.1	7.0	5.0	4.7	2.2	0.7	1.9	5.5
2	6.0	5.9	11.7	8.0	10.0	8.6	3.2	3.2	4.6	0.7	5.5	6.0
3	5.5	25.0	10.2	7.3	14.4	6.5	2.5	3.0	3.5	0.8	9.7	5.1
4	5.5	27.0	9.0	8.0	13.2	5.0	2.2	2.7	3.2	0.6	9.3	4.6
5	5.3	19.7	8.5	9.3	9.3	4.2	2.0	2.2	2.5	0.7	7.2	4.3
6	5.0	15.0	7.6	27.0	8.0	4.3	1.9	2.6	2.1	0.5	5.0	5.1
7	4.8	29.1	9.2	28.3	6.3	7.0	3.9	4.1	1.8	0.3	4.0	5.2
8	4.6	36.5	25.6	22.0	5.6	5.5	4.2	6.8	1.5	0.2	3.5	4.7
9	4.6	32.0	26.2	15.4	5.0	7.0	4.8	6.2	1.1	0.2	2.9	4.1
10	4.4	24.3	20.0	23.5	4.6	7.8	4.2	6.2	1.1	0.3	2.6	3.7
11	4.2	17.6	21.4	28.0	4.2	5.5	4.0	5.4	1.1	0.6	2.4	3.4
12	4.1	13.0	22.0	22.7	5.2	4.4	3.9	4.3	1.1	0.6	2.5	3.3
13	4.0	18.2	29.7	18.3	6.0	4.2	6.0	3.5	0.9	0.6	2.4	3.3
14	4.5	19.0	32.0	14.3	10.0	3.5	11.1	3.0	0.8	0.6	2.3	3.0
15	6.0	16.3	36.4	12.8	17.4	3.2	6.0	2.4	0.7	0.4	2.0	3.1
16	6.4	12.8	37.6	10.2	14.0	3.0	4.6	3.8	0.6	0.3	2.0	4.0
17	7.8	13.2	37.6	10.0	10.3	2.7	3.2	3.0	0.3	0.3	1.8	4.9
18	8.0	15.0	29.0	9.8	8.3	3.0	3.2	2.5	0.8	0.3	1.6	5.2
19	8.5	12.9	23.8	8.4	6.7	3.5	3.8	2.2	0.8	0.3	1.9	4.5
20	9.6	10.8	19.2	7.7	5.5	4.5	5.5	3.0	0.9	0.4	1.9	3.9
21	7.8	14.0	18.0	7.0	4.8	4.3	16.5	3.2	1.4	0.9	1.7	3.5
22	20.4	24.3	16.6	6.7	4.5	3.5	25.3	5.0	1.4	1.5	1.7	3.5
23	24.0	23.5	13.7	6.3	4.3	3.0	16.4	5.2	1.1	1.6	1.7	4.8
24	16.8	23.5	11.2	5.8	4.2	2.4	12.7	6.5	1.1	1.7	1.5	9.0
25	12.6	24.2	10.0	5.5	4.3	1.8	8.5	5.6	1.1	1.7	1.4	7.8
26	8.5	23.3	9.3	5.5	4.6	4.8	6.1	4.9	1.1	2.0	1.6	5.7
27	7.2	20.4	8.4	5.2	4.5	3.4	7.0	4.0	0.9	2.2	1.7	6.0
28	7.0	16.6	8.0	4.7	4.4	2.8	7.3	3.5	1.1	1.9	1.9	10.0
29	6.6	-----	7.4	4.5	4.0	3.7	6.9	2.9	0.8	1.9	2.3	9.5
30	5.9	-----	7.2	4.4	4.4	4.0	5.6	2.5	0.7	1.9	3.5	7.1
31	5.6	-----	7.2	-----	4.3	-----	5.0	2.5	-----	1.7	-----	5.0

DAILY RIVER STAGES.

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Cape Fear River system—Cape Fear River, Fayetteville, N. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.0	5.0	3.5	21.0	6.6	3.2	2.0	6.0	10.3	2.9	14.0	6.1
2	4.9	4.9	3.2	17.3	5.5	3.0	2.0	7.0	9.6	2.5	9.3	6.9
3	4.5	4.8	3.5	11.0	5.0	3.0	1.5	7.0	7.2	2.4	7.1	6.7
4	4.3	4.4	3.5	9.4	4.3	2.7	1.2	6.4	5.7	2.5	5.5	8.4
5	3.7	4.0	7.0	6.0	4.1	2.3	1.0	5.2	14.0	2.4	4.7	16.0
6	3.7	3.9	20.5	12.8	3.8	1.9	5.1	5.0	18.8	2.5	4.2	18.0
7	3.6	3.8	17.7	21.5	3.1	1.4	12.0	4.1	14.0	5.5	3.8	14.6
8	4.0	3.6	11.0	15.3	8.0	1.2	16.2	3.0	12.5	5.6	5.4	11.8
9	3.6	3.5	8.7	11.7	7.0	1.1	12.4	3.0	13.2	4.2	5.0	9.0
10	3.5	3.4	7.9	8.0	6.3	1.2	10.2	2.6	10.0	3.4	4.8	7.0
11	3.4	3.4	5.8	7.0	5.4	1.2	12.5	2.3	8.7	2.7	4.3	5.5
12	3.3	3.5	5.2	6.1	4.5	1.1	8.0	3.7	6.5	2.3	3.7	5.3
13	3.4	3.5	4.9	5.9	4.0	1.2	6.0	5.0	5.0	2.0	3.5	5.3
14	3.6	3.4	5.0	5.7	3.7	1.3	5.1	9.4	4.3	1.9	3.9	5.3
15	3.8	2.2	5.1	5.4	5.0	1.3	5.1	16.0	4.1	1.8	4.3	5.0
16	3.6	2.9	8.0	5.4	4.9	2.5	5.5	14.0	3.8	1.8	6.0	5.0
17	3.7	2.9	9.2	5.6	5.1	3.9	5.5	10.0	3.6	1.5	7.0	4.8
18	3.6	2.9	7.7	5.4	4.7	4.3	4.1	7.0	3.4	1.4	9.8	4.6
19	3.7	3.1	6.2	4.7	4.2	3.9	6.0	9.2	3.1	2.0	10.2	4.7
20	3.8	4.5	5.5	4.4	4.0	4.0	5.5	22.2	2.9	5.0	11.0	4.6
21	3.6	5.3	5.0	4.2	3.5	7.0	5.5	29.0	2.5	5.0	12.2	5.3
22	4.1	5.7	5.0	4.0	3.0	7.0	4.2	29.2	2.2	4.5	9.6	6.1
23	4.4	6.0	4.7	3.9	3.0	5.5	3.6	23.5	2.5	10.0	7.8	8.0
24	4.4	5.5	4.5	4.1	2.9	4.3	10.0	18.0	15.0	9.8	5.6	7.3
25	4.4	5.1	4.2	4.4	12.0	3.2	7.0	10.3	14.0	6.0	5.1	7.0
26	5.5	4.5	5.0	7.2	11.4	2.7	6.0	6.0	9.8	4.5	5.0	6.4
27	14.0	4.1	6.0	10.4	9.0	2.2	4.6	6.1	7.0	4.7	5.1	5.5
28	11.0	3.8	5.6	10.7	6.7	1.7	4.1	6.2	5.0	4.0	4.7	5.3
29	9.2	-----	4.7	12.0	5.0	1.6	4.0	7.0	3.9	3.6	4.4	5.1
30	6.5	-----	4.3	9.6	4.0	2.1	3.9	8.5	3.4	3.5	4.7	4.9
31	5.3	-----	14.8	-----	3.5	-----	4.0	11.0	-----	10.0	-----	4.7

1899.

1	4.5	11.0	30.8	17.8	7.2	6.0	2.9	11.5	2.4	2.0	11.0	8.0
2	4.6	18.1	25.0	17.0	6.0	6.4	2.6	10.0	2.2	1.7	21.4	6.4
3	6.5	14.0	21.0	14.0	6.0	8.0	2.3	8.8	1.9	1.7	17.5	6.5
4	6.5	12.8	28.6	12.2	5.5	7.6	2.3	7.0	1.6	1.5	12.8	7.0
5	5.8	23.0	34.4	15.6	5.5	6.1	4.3	5.5	1.5	1.4	10.4	6.7
6	5.5	31.9	33.2	21.0	5.5	4.2	9.0	4.2	1.6	2.1	8.3	5.5
7	5.5	41.0	27.4	17.6	5.6	4.2	5.9	3.2	1.4	14.4	6.5	5.1
8	17.0	50.8	25.0	23.2	8.6	3.8	5.3	2.6	2.0	13.5	5.0	4.9
9	21.4	52.0	20.0	35.5	14.2	3.5	8.3	7.0	1.8	17.0	5.0	4.7
10	14.9	47.3	15.0	30.3	13.0	4.5	9.3	10.2	1.9	13.2	5.0	4.3
11	10.2	37.4	11.5	23.0	9.8	7.5	6.4	7.0	1.8	10.0	4.8	4.3
12	8.0	30.0	10.2	19.4	10.9	8.1	5.0	5.5	5.7	7.0	4.5	4.5
13	9.3	20.8	9.4	15.8	11.0	10.0	3.6	4.6	4.0	5.0	4.6	4.0
14	10.0	12.3	8.7	13.5	15.4	11.1	3.1	3.7	4.0	4.5	4.3	14.0
15	19.0	10.0	18.6	10.2	17.3	8.0	2.6	3.0	4.6	3.8	4.0	10.0
16	23.6	12.5	38.6	9.8	12.0	5.8	2.4	2.7	4.0	3.5	4.0	7.5
17	17.2	24.0	42.0	9.0	9.7	5.0	2.4	2.5	2.5	3.5	4.0	6.0
18	14.5	36.5	38.0	10.0	7.2	4.6	4.5	2.4	1.8	3.0	3.9	5.4
19	13.4	42.6	28.0	9.2	5.5	4.1	4.0	2.7	1.6	3.3	3.8	5.0
20	11.0	43.0	28.8	9.4	5.3	3.7	3.5	2.7	1.8	3.0	3.6	4.8
21	9.2	38.5	32.0	9.0	5.2	3.2	3.0	2.3	2.5	2.7	3.5	4.5
22	8.0	34.0	25.0	8.5	5.0	3.2	2.4	2.2	4.0	2.5	3.3	4.0
23	7.0	28.3	18.0	8.4	5.3	3.0	2.3	5.0	3.7	2.2	3.3	4.2
24	6.2	23.0	14.7	8.0	6.3	3.1	2.8	3.7	3.2	2.3	3.8	5.4
25	6.0	18.2	12.0	6.6	6.0	2.9	4.0	2.5	2.6	2.1	4.0	10.0
26	7.0	16.2	10.0	7.0	5.5	2.5	6.4	2.7	2.9	2.1	4.0	12.0
27	6.8	17.0	10.0	10.0	5.3	2.8	7.0	2.1	3.7	2.1	4.5	9.7
28	6.6	28.4	12.0	11.4	4.7	3.1	12.8	1.6	3.9	2.1	5.6	7.3
29	6.6	-----	17.8	10.0	4.2	3.5	11.7	1.6	3.0	2.1	10.0	6.0
30	7.0	-----	21.7	8.8	4.2	3.2	9.9	1.5	2.5	2.1	9.5	5.9
31	7.0	-----	19.2	-----	5.0	-----	7.6	2.9	-----	4.2	-----	5.5

DAILY RIVER STAGES.

*Columbia River system—Columbia River, Northport, Wash.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1						11.0						
2						12.0						
3						13.0						
4						14.0						
5						15.0						
6						16.3						
7						17.0						
8						18.2						
9						19.0						
10						19.7						
11						20.0						
12						20.5						
13						21.0						
14						21.2						
15						21.6						
16						22.0						
17						22.7						
18						23.4						
19						24.2						
20						25.2						
21						26.2						
22						27.2						
23						28.4						
24						29.2						
25						29.6						
26						30.2						
27						30.8						
28					6.6	31.4						
29					7.6	32.2						
30					8.6	33.4						
31					10.0							

1897.

1						31.9						
2						32.1						
3						32.0						
4						31.6						
5						31.0						
6					11.5	30.1						
7					13.5	28.8						
8					13.4	27.8						
9					13.6	27.3						
10					14.2	26.8						
11					14.8	26.4						
12					15.2	25.8						
13					16.0	25.7						
14					17.0	23.9						
15					18.4	22.7						
16					19.5							
17					20.5							
18					22.2							
19					23.7							
20					25.7							
21					28.0							
22					29.2							
23					30.0							
24					31.2							
25					31.6							
26					31.8							
27					31.6							
28					31.5							
29					31.4							
30					31.6							
31					31.9							

DAILY RIVER STAGES.

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*Columbia River system—Columbia River, Northport, Wash.—Continued.***1898.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1						15.0	32.7					
2						15.9	32.5					
3						17.0	32.4					
4						18.2	32.4					
5						19.0	32.5					
6						19.4	32.4					
7						20.0	32.5					
8						20.7	32.6					
9						21.1	32.5					
10						21.6	32.9					
11						22.2	33.0					
12						22.6	33.1					
13						23.0	33.1					
14						23.4	32.9					
15					3.2	23.9	32.8					
16					3.7	24.9	32.6					
17					3.9	25.9	32.5					
18					4.2	26.9	32.5					
19					4.5	27.6	32.5					
20					4.5	28.3	32.5					
21					4.7	28.8	32.5					
22					5.0	29.3	32.1					
23					5.6	29.6	31.5					
24					6.3	30.0	29.9					
25					7.4	30.6	29.0					
26					8.8	31.1	28.2					
27					10.0	31.8	27.3					
28					11.0	32.2	27.1					
29					12.0	32.5	26.2					
30					13.0	32.8	25.4					
31					14.0		24.9					

1899.

1						26.4	39.8					
2						26.8	39.8					
3						27.8	39.5					
4						28.3	39.9					
5						29.5	39.9					
6						31.0	39.9					
7						31.0	39.9					
8						31.0	39.9					
9						31.5	39.9					
10						31.9	39.6					
11						32.7	39.2					
12						33.0	39.0					
13						33.5	39.0					
14						34.0	38.9					
15						34.0	38.6					
16						34.0	38.6					
17						34.5	38.6					
18						34.9	38.6					
19						36.5	38.2					
20					16.1	37.0	37.8					
21					16.6	37.4	37.8					
22					16.8	37.8	37.6					
23					17.4	37.8	37.2					
24					18.4	37.8	36.9					
25					19.6	38.1	36.4					
26					21.0	38.1	36.0					
27					22.6	38.8	35.6					
28					23.6	39.2	34.4					
29					24.8	39.8	34.0					
30					25.1	39.8	33.4					
31					25.7		33.1					

DAILY RIVER STAGES.

Columbia River system—Columbia River, Umatilla, Oreg.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1				5.8	8.1	18.5	25.0	13.8				
2				5.8	8.2	19.5	24.9	13.3				
3				5.9	8.3	20.1	24.8	13.0				
4				6.0	8.4	20.5	24.6	12.9				
5				6.0	8.5	21.0	24.4	12.7				
6				6.1	8.7	21.2	24.3	12.5				
7				6.1	9.0	21.6	24.3	12.5				
8				6.2	9.4	21.4	24.3	12.3				
9				6.4	9.7	21.8	24.1	12.1				
10				6.5	10.0	21.7	23.9	12.0				
11				6.7	10.1	22.0	23.7	11.8				
12				7.0	10.2	22.0	23.5	11.7				
13				7.3	10.3	21.8	23.2	11.5				
14				7.6	10.5	22.1	23.0	11.3				
15				7.8	10.5	22.6	22.7	11.2				
16				7.8	10.4	23.0	22.4	11.1				
17				7.7	10.2	23.5	21.9	11.0				
18				7.7	10.1	23.9	21.5	10.8				
19				7.4	10.0	24.4	21.0	10.5				
20				7.1	9.9	24.8	20.5	10.2				
21				6.9	9.9	25.1	20.0	10.0				
22				6.9	10.0	24.9	19.6	9.8				
23				6.8	10.2	24.7	19.1	9.5				
24				7.0	10.7	24.5	18.5	9.3				
25				7.2	11.7	24.4	18.0	9.0				
26				7.4	12.4	24.2	17.3	8.7				
27				7.6	13.4	24.0	16.7	8.4				
28				7.7	14.0	24.1	16.1	8.1				
29				7.8	14.6	24.4	15.7	8.0				
30				8.0	15.3	24.7	15.1	7.9				
31					16.7		14.2	7.8				

1897.

1				6.0	16.8	23.8	16.3	10.4	7.7	2.4	2.0	5.2
2				5.9	16.5	23.5	16.5	10.1	7.5	2.4	1.9	5.3
3				5.8	16.3	22.9	16.7	9.9	7.2	2.4	1.8	5.3
4				5.7	16.5	22.4	16.8	9.7	7.0	2.6	1.8	5.2
5				5.6	17.1	21.7	16.9	9.4	6.7	2.6	1.9	5.2
6				5.5	17.9	21.3	16.9	9.2	6.7	2.6	1.9	5.2
7				6.0	18.9	20.8	16.7	9.1	6.6	2.5	2.0	5.2
8				6.4	20.1	20.3	16.5	8.9	6.5	2.5	2.1	5.3
9				6.8	20.2	20.4	16.5	8.8	6.4	2.5	1.9	5.3
10				7.1	19.9	20.3	16.2	8.7	6.2	2.4	1.7	5.4
11				7.6	19.2	19.9	15.9	8.7	6.1	2.4	1.6	5.6
12				8.8	18.7	19.2	15.6	8.6	5.7	2.5	1.5	5.8
13				9.1	18.5	18.7	15.2	8.6	5.6	2.5	2.0	5.8
14				9.5	19.1	18.3	15.0	8.5	5.4	2.6	3.6	5.8
15				9.8	20.0	17.9	14.8	8.4	5.2	2.6	4.2	5.7
16				10.9	21.2	17.6	14.5	8.4	5.1	2.7	4.0	5.6
17				11.8	22.0	17.4	14.2	8.4	4.8	2.7	3.8	5.6
18				13.3	22.8	17.1	14.0	8.4	4.6	2.7	3.6	5.6
19				14.9	23.5	17.0	13.8	8.3	4.4	2.6	4.0	5.5
20				16.4	23.7	17.0	13.5	8.3	4.2	2.6	5.0	5.3
21				17.4	24.0	17.0	13.2	8.3	3.9	2.6	6.0	5.0
22				17.4	24.7	17.0	13.0	8.3	3.7	2.7	6.1	4.7
23				17.3	25.0	16.9	13.0	8.4	3.6	2.8	6.2	4.3
24				16.8	24.7	16.9	12.7	8.3	3.4	2.8	6.1	4.0
25				15.8	24.6	16.9	12.5	8.2	3.2	2.7	6.1	4.0
26				15.3	24.5	16.8	12.2	8.1	3.2	2.7	5.8	4.1
27				15.4	24.6	16.8	11.9	8.0	2.9	2.6	5.6	4.1
28				16.4	24.3	16.7	11.4	8.0	2.6	2.6	5.5	4.1
29				17.2	23.8	16.6	11.1	8.0	2.5	2.5	5.4	4.3
30				17.2	23.7	16.4	10.8	7.9	2.4	2.3	5.2	4.3
31					23.8		10.6	7.9		2.1		4.4

DAILY RIVER STAGES.

107

Columbia River system—Columbia River, Umatilla, Oreg.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.9	2.8	5.8	0.0	12.5	20.9	18.8	11.7	8.3	4.1	2.2	2.5
2	5.5	2.7	5.8	0.4	12.3	20.7	18.5	11.2	8.0	4.0	2.1	2.5
3	5.3	2.5	6.0	1.0	12.1	20.4	18.2	11.1	8.0	3.9	2.0	2.6
4	5.2	2.5	6.1	1.7	12.2	20.2	17.9	11.1	7.8	3.8	2.1	2.6
5	5.0	2.5	6.1	1.9	12.5	19.9	17.5	11.0	7.5	3.7	2.1	2.6
6	4.8	2.5	6.1	2.0	12.7	19.6	17.2	10.9	7.3	3.7	2.1	2.6
7	4.6	2.7	6.2	2.2	13.0	19.5	16.9	10.8	7.0	3.6	2.2	2.5
8	4.5	3.3	6.2	4.2	13.0	19.5	16.6	10.8	6.8	3.5	2.2	2.5
9	4.5	4.0	7.0	4.3	13.8	19.8	16.3	10.7	6.8	3.5	2.2	2.4
10	4.5	4.5	6.8	4.4	13.8	20.1	16.0	10.6	6.6	3.4	2.2	2.2
11	4.5	4.8	6.6	4.6	13.9	20.5	15.7	10.5	6.4	3.3	2.2	2.0
12	4.4	4.6	6.4	6.3	14.2	20.9	15.5	10.4	6.1	3.1	2.2	1.8
13	4.4	4.3	6.3	6.5	14.8	21.1	15.2	10.3	6.1	2.9	2.2	1.6
14	4.5	4.8	6.0	6.6	15.2	21.3	15.0	10.3	6.0	2.7	2.1	1.5
15	4.5	5.7	5.9	7.8	15.5	21.4	14.8	10.2	5.7	2.6	2.0	1.4
16	4.4	9.0	5.8	8.9	15.7	21.7	14.7	10.1	5.4	2.5	1.9	1.3
17	4.3	10.2	5.6	9.5	16.3	21.8	14.6	10.0	5.0	2.6	2.3	1.2
18	4.2	9.7	5.5	10.0	17.2	21.8	14.6	10.0	4.9	2.6	2.5	1.1
19	4.1	8.8	5.3	10.4	17.7	21.6	14.6	9.9	4.8	2.6	2.5	1.0
20	4.0	8.0	5.0	10.4	18.0	21.7	14.5	9.8	4.8	2.6	2.5	0.9
21	4.0	7.8	4.0	10.2	18.0	21.7	14.4	9.4	4.6	2.6	2.5	0.8
22	3.9	7.1	2.7	10.2	17.8	21.5	14.4	9.2	4.5	2.5	2.5	0.7
23	3.9	6.8	2.3	10.5	17.5	21.2	14.2	9.1	4.5	2.5	2.6	0.6
24	3.8	6.6	1.7	11.2	17.5	20.9	13.9	8.8	4.5	2.5	2.6	0.5
25	3.7	6.2	1.4	11.5	17.5	20.6	13.7	8.7	4.4	2.4	2.6	0.4
26	3.0	6.1	1.3	11.7	17.5	20.5	13.4	8.6	4.3	2.4	2.5	0.3
27	3.0	6.0	1.0	12.2	17.7	20.3	13.1	8.6	4.2	2.4	2.5	0.2
28	2.9	5.9	0.7	12.4	18.4	19.9	12.8	8.4	4.2	2.4	2.5	0.1
29	2.8		0.3	12.4	19.7	19.6	12.5	8.5	4.2	2.4	2.4	0.0
30	2.7		0.0	12.5	20.6	19.2	12.2	8.4	4.2	2.4	2.4	0.0
31	2.8		-0.7		20.8		12.0	8.3		2.3		0.0

1899.

1	-0.1	2.0	2.6	4.1	8.7	17.1	23.6	16.3	9.3	6.6	4.6	6.0
2	-0.2	1.9	2.5	4.1	8.5	17.2	23.4	16.0	9.1	6.6	4.5	6.5
3	-0.3	1.8	2.5	4.1	8.3	17.8	23.1	15.8	9.0	6.5	4.4	7.0
4	-0.4	1.7	2.4	4.1	8.1	18.6	23.0	15.6	8.8	6.4	4.3	7.5
5	-0.5	1.7	2.5	4.0	8.0	19.5	22.8	15.4	8.8	6.4	4.2	7.3
6	-0.4	1.7	2.6	4.3	7.8	19.9	22.7	15.0	8.7	6.3	4.1	7.0
7	-0.3	1.5	2.6	4.6	8.2	20.0	22.4	14.7	8.6	6.2	4.0	6.7
8	-0.1	1.4	2.7	4.9	9.1	19.5	22.3	14.4	8.5	6.1	4.0	6.7
9	0.1	1.2	2.7	5.4	10.0	19.1	22.2	14.1	8.4	6.0	4.2	6.7
10	0.3	1.0	2.7	5.6	10.6	19.0	22.0	13.6	8.3	5.8	4.4	6.6
11	0.3	0.9	2.8	6.2	12.4	19.5	22.0	13.2	8.3	5.7	4.5	6.4
12	0.3	0.8	2.9	7.0	12.8	20.4	21.7	13.0	8.1	5.6	4.6	6.2
13	0.4	0.9	2.9	7.9	13.5	22.0	21.4	12.9	8.0	5.4	4.7	5.9
14	1.0	1.2	2.8	8.5	13.4	22.0	21.1	12.7	7.8	5.4	4.6	5.7
15	1.6	2.0	2.6	8.9	13.2	21.4	21.0	12.4	7.8	5.3	4.6	5.6
16	1.6	3.2	2.5	8.6	12.8	20.9	20.8	12.1	7.8	5.2	4.8	5.5
17	1.8	3.2	2.0	8.5	12.5	21.1	20.7	11.8	7.8	5.1	5.0	5.4
18	2.0	3.2	2.0	8.7	12.4	22.0	20.3	11.7	7.8	5.0	5.1	5.4
19	2.2	3.4	2.1	8.9	12.4	23.3	20.1	11.6	7.8	4.9	5.1	5.3
20	2.4	3.7	2.3	8.8	12.4	24.5	19.9	11.4	7.7	4.8	5.3	5.3
21	3.4	4.0	2.6	8.6	12.3	25.2	19.6	11.1	7.6	4.7	5.5	5.2
22	5.3	4.1	2.9	8.6	12.3	25.0	19.3	11.0	7.5	4.8	5.7	5.1
23	4.9	3.2	3.2	8.6	12.4	24.1	19.1	10.7	7.4	4.9	5.9	5.2
24	4.5	3.1	3.3	8.7	12.8	23.3	19.0	10.3	7.3	5.4	6.1	5.3
25	3.8	3.0	3.6	8.9	13.6	23.0	18.5	10.1	7.2	5.3	6.0	5.4
26	3.0	2.8	3.9	9.3	15.0	23.2	18.1	9.9	7.1	5.1	5.8	5.5
27	2.7	2.7	4.6	9.7	16.1	23.7	17.8	9.9	7.0	5.1	5.7	5.6
28	2.5	2.6	4.6	9.8	16.6	23.9	17.4	10.0	6.9	5.0	5.6	5.7
29	2.0		4.6	9.2	16.8	23.7	17.0	9.8	6.8	4.9	5.5	5.8
30	2.0		4.3	8.9	17.0	23.5	16.8	9.6	6.7	4.8	5.4	5.9
31			4.2		17.1		16.5	9.4		4.7		5.7

DAILY RIVER STAGES.

Columbia River system—Columbia River, The Dalles, Oreg.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1				12.0	12.7	29.0	42.3	23.3				
2				11.2	12.8	31.6	42.6	22.5				
3				10.3	12.9	33.2	42.3	21.9				
4				9.5	13.2	34.0	42.3	21.2				
5				9.2	13.6	34.9	41.9	20.5				
6				9.0	14.2	35.5	41.7	19.9				
7				8.8	15.2	35.9	41.5	19.5				
8				9.0	15.8	36.3	41.5	19.2				
9				9.2	16.1	36.1	41.4	18.7				
10				10.0	15.9	36.1	41.1	18.1				
11				10.2	16.0	36.6	40.8	17.4				
12				10.2	16.1	37.2	40.6	17.0				
13				10.6	16.1	37.2	40.0	16.6				
14				11.1	16.4	37.0	39.4	16.4				
15				11.7	16.7	37.6	39.0	16.0				
16				12.7	16.6	38.3	38.4	15.7				
17				12.8	16.5	39.3	37.7	15.1				
18				12.8	16.2	40.1	36.8	14.6				
19				12.4	15.9	40.9	36.0	14.2				
20				11.9	15.8	41.7	35.1	14.0				
21				11.4	15.8	42.4	34.2	13.7				
22				11.0	16.0	42.9	33.2	13.2				
23				10.6	16.1	42.6	32.4	12.9				
24				10.5	16.6	42.0	31.4	13.0				
25				10.7	17.8	41.6	30.5	12.7				
26				10.9	19.2	41.3	29.5	12.6				
27				11.2	21.1	41.1	28.4	12.6				
28				11.9	22.2	40.9	27.3	12.0				
29				12.3	23.4	41.4	26.1	11.8				
30				12.5	24.5	41.8	25.1	11.7				
31					26.2		24.1	11.7				

1897.

1				7.0	28.5	40.9	27.0	16.2	11.5	4.4	2.7	7.8
2				7.4	27.8	40.8	26.9	15.7	11.1	4.3	2.7	7.5
3				7.8	27.4	39.8	26.8	15.1	10.8	4.4	2.6	7.3
4				8.1	27.3	38.7	26.8	14.9	10.4	4.4	2.5	7.3
5				8.5	27.6	37.5	27.2	14.7	10.2	4.5	2.4	7.7
6				9.0	28.8	36.6	27.5	14.1	10.0	4.6	2.5	7.8
7				9.5	30.6	35.9	27.4	14.0	9.8	4.7	2.6	8.5
8				10.0	32.8	35.2	27.0	13.9	9.6	4.8	2.7	8.8
9				10.5	33.8	34.6	26.6	13.5	9.4	4.9	2.8	8.8
10				11.3	33.8	34.1	26.1	13.3	9.2	4.7	2.8	8.9
11				12.3	33.0	33.8	26.0	13.0	8.8	4.7	2.9	9.6
12				13.2	31.9	32.9	25.8	13.0	8.4	4.6	3.4	9.8
13				14.7	31.2	31.8	25.3	12.7	8.1	4.5	3.7	9.5
14				15.5	31.4	30.9	24.5	12.6	7.8	4.4	4.0	10.0
15				16.2	32.6	30.5	24.2	12.5	7.3	4.2	5.0	9.8
16				17.4	34.7	30.0	23.5	12.4	6.7	4.1	5.6	8.7
17				18.7	36.6	29.6	23.1	12.6	6.4	4.0	5.7	8.6
18				20.8	38.1	28.7	22.6	12.5	6.3	3.9	6.2	8.5
19				23.4	39.5	27.9	22.2	12.5	6.2	3.9	6.8	8.0
20				25.7	40.6	27.6	22.0	12.4	6.0	3.8	6.4	7.6
21				28.4	40.7	27.5	21.8	12.3	5.9	3.7	6.7	7.0
22				30.0	41.5	27.2	21.2	12.2	5.8	3.7	8.5	6.8
23				29.6	42.5	27.2	20.5	12.2	5.6	3.6	9.8	6.4
24				28.9	42.7	27.4	20.0	12.1	5.5	3.5	9.7	6.0
25				27.3	42.3	27.7	19.5	12.0	5.2	3.4	9.0	6.0
26				26.2	42.0	27.9	18.9	11.9	5.0	3.3	8.8	5.9
27				25.7	41.7	27.7	18.6	12.1	4.8	3.2	8.7	6.1
28				26.3	41.7	27.7	18.3	12.2	4.7	3.1	8.5	6.8
29				28.2	41.1	27.4	17.7	12.0	4.6	3.0	8.2	7.1
30				28.9	40.6	27.3	17.3	12.1	4.5	2.9	8.0	7.2
31					40.5		16.7	11.8		2.8		8.0

DAILY RIVER STAGES.

109

Columbia River system—Columbia River, The Dalles, Oreg.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.0	2.6	8.9	5.3	21.1	34.8	31.9	18.5	12.3	5.6	2.7	2.7
2	8.9	2.5	8.9	5.3	21.1	34.9	31.1	18.0	12.1	5.5	2.7	2.5
3	8.6	2.7	9.1	5.4	21.0	34.5	30.8	17.8	11.8	5.4	2.8	2.2
4	7.8	2.7	9.3	5.5	20.8	34.0	30.0	17.2	11.5	5.4	2.9	1.9
5	7.4	2.8	9.2	5.8	21.1	33.4	29.2	16.6	11.1	5.2	2.9	1.9
6	7.3	3.6	9.5	6.0	21.5	32.9	28.6	16.3	10.5	5.0	2.9	1.6
7	7.2	4.6	9.7	6.3	21.8	32.5	27.7	16.2	10.2	4.8	2.8	1.3
8	6.9	4.3	9.9	6.9	22.0	32.4	27.2	16.1	9.8	4.6	2.9	0.9
9	6.8	4.6	9.9	7.7	22.1	32.7	26.8	15.9	9.5	4.6	2.8	0.7
10	6.6	5.3	10.6	8.1	22.1	32.2	26.2	15.6	8.8	4.4	2.7	0.4
11	6.2	6.2	11.0	8.5	22.1	34.1	25.9	15.6	8.3	4.3	2.6	0.1
12	5.8	6.7	10.6	8.9	22.4	34.8	25.5	15.4	8.1	4.2	2.4	0.0
13	5.5	6.9	10.1	9.6	23.0	35.3	25.0	15.3	8.0	4.1	2.1	-0.5
14	5.0	7.5	9.7	9.9	24.1	35.9	24.4	15.2	7.6	4.0	2.0	-0.5
15	5.0	8.3	9.3	10.9	24.8	36.2	24.0	15.3	7.3	4.0	2.0	-0.6
16	5.0	10.6	8.9	12.6	25.4	36.5	23.6	15.0	7.0	3.9	2.1	-0.7
17	4.9	14.0	8.5	13.4	26.1	36.8	23.5	15.0	6.8	3.6	2.2	-0.8
18	4.8	16.5	8.3	15.2	27.0	36.8	23.3	14.8	6.7	3.8	2.5	-0.8
19	4.9	15.5	8.4	15.7	28.3	36.8	23.3	14.6	6.5	3.7	2.5	0.0
20	5.1	14.0	8.4	16.0	29.0	36.9	23.2	14.4	6.3	3.6	2.6	1.5
21	4.8	12.8	7.7	15.8	29.5	36.9	23.1	14.3	6.2	3.5	2.7	1.1
22	4.6	11.7	7.3	15.8	29.5	36.8	22.9	14.0	6.2	3.4	2.7	1.0
23	4.5	10.9	7.1	16.2	29.0	36.3	22.6	13.6	6.0	3.5	3.0	0.6
24	4.1	10.5	6.8	16.6	28.5	35.6	22.0	13.3	5.8	3.3	2.8	0.4
25	3.9	10.0	6.3	17.3	28.4	35.2	22.0	13.0	5.8	3.2	2.5	0.3
26	3.8	9.8	6.3	17.9	28.6	34.6	21.5	13.0	5.8	3.0	2.3	0.3
27	3.5	9.0	6.3	18.3	28.7	34.5	20.7	12.7	5.9	3.2	2.3	0.3
28	3.1	9.1	6.3	20.3	29.3	34.1	20.3	12.5	6.0	3.1	2.5	0.8
29	3.0	-----	6.0	21.3	31.2	33.3	19.8	12.6	5.9	2.8	2.6	0.7
30	2.9	-----	5.8	21.3	33.5	32.7	19.5	12.6	6.0	2.8	2.9	0.2
31	2.7	-----	5.5	-----	34.4	-----	19.1	12.5	-----	2.9	-----	2.3

1899.

1	3.0	5.9	5.5	6.4	14.0	28.5	40.3	26.7	14.5	10.0	6.3	10.3
2	2.6	5.8	5.3	6.2	13.6	28.8	40.4	26.0	14.1	9.8	6.2	11.8
3	2.0	5.4	5.0	6.1	13.1	29.1	40.4	25.3	13.7	9.5	6.2	11.9
4	1.8	5.9	4.9	6.3	12.9	30.5	40.0	24.5	13.3	9.2	6.1	11.8
5	1.6	5.5	4.7	6.5	12.7	31.8	39.7	24.0	13.0	9.0	6.2	11.6
6	1.5	3.8	4.3	7.1	12.5	33.5	39.4	23.3	12.7	8.9	6.0	11.2
7	1.4	3.4	4.4	7.3	12.4	34.0	39.0	22.8	12.6	8.7	5.8	10.5
8	1.2	2.4	4.3	7.5	12.9	33.6	38.5	22.1	12.3	8.6	5.4	10.3
9	1.1	2.2	4.7	8.2	14.4	32.7	38.2	21.4	12.2	8.2	5.5	10.1
10	1.1	3.9	4.5	8.7	16.1	32.1	38.1	21.0	12.2	8.0	5.6	10.0
11	1.2	4.6	4.7	9.8	18.3	32.5	37.9	20.4	12.1	7.8	5.7	10.0
12	1.4	4.4	4.9	11.2	20.7	33.5	37.7	19.9	12.0	7.5	5.7	9.9
13	2.0	4.7	5.0	11.8	21.5	36.0	37.3	19.9	12.0	7.5	5.7	9.6
14	2.7	5.1	4.7	13.6	22.0	37.8	36.8	19.4	11.9	7.4	5.8	9.0
15	2.8	6.0	4.3	15.3	21.9	37.3	36.4	19.0	11.7	7.3	5.9	8.6
16	3.2	5.9	4.1	14.6	21.2	36.3	36.1	18.5	11.5	7.1	6.0	8.4
17	3.5	5.9	3.9	14.1	20.4	35.8	35.7	18.1	11.5	7.0	6.3	8.2
18	3.6	5.8	3.8	14.4	20.1	36.4	35.3	17.9	11.5	7.0	6.5	8.0
19	3.8	5.9	3.7	14.5	20.0	38.5	34.7	17.6	11.4	6.8	6.8	7.8
20	4.0	6.5	3.9	14.2	20.0	40.9	34.3	17.1	11.4	6.9	7.0	7.5
21	5.8	6.0	4.2	14.4	19.8	42.4	33.9	16.9	11.7	7.0	7.7	7.5
22	6.8	6.5	4.4	13.9	19.8	43.0	33.3	16.8	11.5	7.4	8.0	7.5
23	6.2	7.0	4.9	13.8	19.9	42.2	32.7	16.5	11.3	7.8	8.4	7.2
24	7.5	6.1	5.0	14.0	20.0	41.0	32.3	16.2	11.3	7.9	8.5	7.5
25	8.0	5.8	5.0	14.0	21.0	39.9	31.5	16.1	10.9	7.8	8.5	7.8
26	7.5	5.0	5.2	14.1	23.0	39.6	30.5	16.0	10.7	7.5	8.6	8.2
27	6.8	4.8	5.5	14.5	25.4	40.2	29.8	15.7	10.6	7.4	8.6	8.4
28	7.0	4.4	5.9	15.5	26.8	40.9	29.1	15.3	10.4	7.1	9.3	8.2
29	7.0	-----	6.5	15.5	27.5	41.0	28.6	15.1	10.2	6.9	9.6	8.0
30	7.1	-----	6.7	15.0	27.8	40.6	27.9	14.9	10.0	6.8	9.9	7.8
31	6.9	-----	6.6	-----	28.4	-----	27.3	14.6	-----	6.6	-----	7.7

DAILY RIVER STAGES.

Columbia River system—Columbia River, Cascade Locks, Oreg.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.2	3.4	6.0	9.6	10.0							9.6
2	1.1	3.4	5.7	8.9	10.1							9.4
3	0.7	3.3	5.2	8.3	10.1							9.3
4	0.5	3.3	4.7	7.8	10.5							10.9
5	0.5	3.2	4.4	7.2	10.6							12.4
6	0.8	3.1	3.9	6.9	11.2							12.4
7	0.9	2.9	3.9	6.9	11.7							13.5
8	1.3	2.6	3.6	7.0	12.5							14.4
9	1.7	2.3	3.7	7.3	12.6							14.0
10	1.6	2.3	3.6	7.6	12.6							13.7
11	1.8	2.1	3.5	8.0	12.6							13.8
12	1.8	1.9	3.4	7.9	12.7							14.5
13	1.8	1.8	3.7	8.5	12.6							16.0
14	2.0	1.9	3.7	8.8	12.8							15.5
15	1.8	1.9	3.7	9.4	13.1							15.7
16	1.3	1.9	3.8	10.0	13.1							15.6
17	1.3	2.0	3.8	10.0	12.9							15.6
18	0.5	1.9	3.7	10.0	12.8							15.0
19	1.6	1.9	3.8	9.8	12.4							14.7
20	2.0	1.9	3.6	9.4	12.4							14.3
21	3.9	1.8	4.1	8.9	12.5							14.0
22	4.9	2.0	4.6	8.6	12.5							13.5
23	4.5	2.0	5.4	8.4	12.6							13.1
24	4.7	2.2	6.9	8.2	12.9							12.9
25	4.6	2.6	7.6	8.2	13.9							12.7
26	4.1	3.9	8.4	8.5	15.2							12.5
27	3.9	4.1	10.7	8.8	16.6							12.3
28	3.7	4.4	10.5	9.3	17.3							12.1
29	3.4	5.0	10.4	9.7	18.4							11.9
30	3.3		10.1	9.9	19.0							11.7
31	3.3		9.9		21.0							11.8

1897.

1	11.5		9.0	15.0	28.3	38.8	26.5	18.2	14.7	9.0	7.8	12.3
2	11.5		8.8	14.2	27.9	38.5	26.3	17.9	14.6	9.0	7.7	11.9
3	11.5		9.0	13.4	27.3	37.8	26.4	17.5	14.1	9.1	7.7	11.9
4	11.4		9.0	12.8	27.3	36.9	26.5	17.4	14.1	9.1	7.7	12.0
5	11.2		9.3	12.8	27.8	35.8	26.8	17.1	14.0	9.3	7.7	12.0
6	11.1		9.4	12.7	28.8	34.8	27.0	17.0	13.7	9.3	7.8	12.5
7	11.1		9.4	13.4	30.2	33.9	26.9	16.8	13.5	9.2	7.8	13.0
8	10.8		9.3	14.0	32.1	33.3	26.4	16.5	13.5	9.2	7.7	13.2
9	10.5		9.1	14.6	32.9	32.9	26.1	16.3	13.2	9.2	7.6	13.3
10	10.3		8.9	14.8	32.9	32.7	26.0	16.1	13.0	9.2	7.9	13.5
11	10.3		8.9	15.3	32.2	32.1	25.6	15.9	12.7	9.2	8.0	13.7
12	10.2		8.7	16.2	31.2	31.4	25.3	15.7	12.5	9.0	8.2	13.7
13	10.1		8.7	17.8	30.4	30.6	25.0	15.7	12.0	9.0	8.3	13.9
14	10.0		8.5	18.3	30.4	29.6	24.5	15.7	11.6	8.8	9.0	14.4
15	9.6		8.2	19.2	31.7	29.0	24.0	15.6	11.5	8.7	9.9	13.9
16	9.4		7.9	20.0	33.4	28.6	23.6	15.5	11.2	8.7	10.0	13.7
17	9.2		8.3	21.3	35.5	28.0	23.2	15.4	10.9	8.7	10.0	13.5
18	9.1		8.2	22.8	37.0	27.9	23.1	15.4	10.8	8.7	10.9	12.7
19	9.0		8.1	25.0	38.2	27.5	22.8	15.4	10.7	8.7	11.5	12.3
20	9.2		8.2	27.2	38.9	27.3	22.5	15.4	10.4	8.5	10.7	12.1
21	9.4		8.2	29.1	39.3	27.0	22.3	15.3	10.3	8.5	11.0	11.8
22	9.5		8.2	30.0	40.0	27.1	22.1	15.3	10.1	8.4	12.6	11.2
23	9.6		8.2	29.5	40.9	26.9	21.5	15.2	10.0	8.4	13.6	11.0
24	9.8		8.6	28.9	40.6	27.1	21.2	15.1	9.7	8.3	13.6	10.5
25	10.6		9.2	27.9	40.2	27.1	20.8	15.1	9.7	8.2	13.1	10.3
26	11.1		9.7	26.4	40.1	27.0	20.5	15.1	9.6	8.2	12.7	10.5
27	10.6		11.3	26.3	40.0	26.9	20.1	15.1	9.5	8.2	12.7	10.9
28	10.1		13.2	26.7	39.8	27.0	19.8	15.1	9.3	8.1	12.4	11.7
29	9.8		15.3	28.3	39.1	26.9	19.5	15.1	9.2	8.1	12.4	12.4
30	9.3		15.8	28.9	38.7	26.8	19.0	15.0	9.1	8.1	12.2	12.1
31	9.1		15.5		38.5		18.7	15.0		8.0		12.5

DAILY RIVER STAGES.

111

*Columbia River system—Columbia River, Cascade Locks, Oreg.—Continued.***1898.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.0	7.9	12.9	9.8	22.8	33.7	30.3	20.2	15.0	10.3	7.6	7.5
2	13.2	7.9	12.7	9.8	22.9	33.7	29.8	19.8	14.8	10.3	7.7	7.6
3	12.7	7.9	12.7	10.0	22.9	33.5	29.5	19.5	14.6	10.3	7.7	7.5
4	12.2	7.9	12.8	10.0	22.3	33.3	29.2	19.2	14.6	10.0	7.7	7.2
5	11.7	7.9	12.9	10.1	22.1	32.5	28.4	18.7	14.6	10.0	7.9	7.5
6	11.5	7.9	13.0	10.1	22.4	32.0	27.8	18.5	14.5	10.0	7.8	7.4
7	11.5	9.8	13.1	10.3	22.9	31.7	27.5	18.2	14.0	9.7	7.8	7.2
8	11.1	9.7	13.4	11.2	23.2	31.6	27.1	18.0	13.7	9.6	8.0	6.7
9	10.9	9.8	13.7	11.6	23.3	31.6	26.4	17.9	13.6	9.4	8.0	6.5
10	10.7	10.3	14.0	12.4	23.4	31.8	25.8	17.9	13.1	9.1	7.8	6.2
11	10.7	10.8	14.1	12.4	23.5	32.3	25.5	17.8	12.5	9.0	7.8	5.9
12	10.4	10.9	13.8	12.9	23.5	33.3	25.0	17.8	12.5	9.0	7.7	5.8
13	10.1	11.3	13.6	13.4	23.7	33.8	24.6	17.8	12.1	8.9	7.7	5.5
14	10.0	11.8	13.5	13.7	24.5	34.2	24.5	17.8	11.8	8.9	7.4	5.0
15	9.8	12.5	13.3	14.2	25.0	34.5	24.0	17.7	11.6	8.9	7.2	5.3
16	10.0	13.9	12.8	15.3	25.5	35.4	23.6	17.6	11.5	8.8	7.3	4.7
17	10.0	17.4	12.6	16.7	25.8	35.7	23.6	17.4	11.3	8.6	7.6	4.9
18	9.7	18.0	12.4	17.8	26.8	35.6	23.6	17.2	11.0	8.6	7.7	5.0
19	9.6	18.8	11.5	18.2	28.0	35.5	23.6	17.2	10.8	8.5	7.9	6.0
20	9.8	17.0	11.5	18.7	28.7	35.3	23.4	17.0	10.7	8.5	7.7	6.7
21	9.6	16.0	11.7	18.4	29.3	35.3	23.4	16.9	10.6	8.5	7.8	6.6
22	9.6	15.2	11.5	18.2	29.0	35.2	23.4	16.8	10.6	8.5	7.8	6.4
23	9.5	14.7	11.2	18.7	28.5	34.8	23.4	16.6	10.6	8.3	8.1	6.4
24	9.2	14.0	11.0	19.0	28.4	33.8	23.0	16.2	10.5	8.3	8.1	6.2
25	9.0	14.0	10.9	19.6	28.3	33.6	22.5	15.8	10.4	8.2	7.9	6.1
26	8.7	13.5	10.9	19.8	28.0	33.0	22.2	15.7	10.3	7.8	7.6	5.9
27	8.5	13.2	10.9	20.4	28.0	32.6	21.8	15.6	10.3	8.1	7.6	6.1
28	8.4	12.9	10.4	21.5	28.5	32.3	21.6	15.4	10.3	8.2	7.5	6.2
29	8.2	-----	10.4	22.3	30.0	31.8	21.0	15.1	10.3	8.2	7.5	6.2
30	8.1	-----	10.0	22.5	32.2	31.2	20.8	15.0	10.3	7.8	7.6	6.3
31	8.1	-----	10.0	-----	33.0	-----	20.4	15.0	-----	7.7	-----	7.5

1899.

1	8.0	11.0	10.4	11.2	16.8	28.3	38.4	25.8	16.7	13.2	10.5	15.1
2	7.9	10.6	10.4	10.9	16.4	28.5	38.3	25.4	16.5	13.1	10.5	15.6
3	7.3	10.0	9.9	10.9	16.2	28.6	38.1	24.9	16.4	13.0	10.4	15.3
4	7.3	9.1	9.8	11.0	16.0	29.6	38.0	24.4	16.1	12.7	10.2	15.1
5	6.5	9.0	9.8	11.2	15.8	31.0	37.7	24.0	15.9	12.7	10.2	14.9
6	5.5	8.1	9.4	11.7	15.5	32.5	37.2	23.5	15.8	12.7	10.1	14.6
7	5.5	7.5	9.3	11.9	15.8	32.9	36.8	23.1	15.8	12.6	10.1	14.1
8	5.1	7.2	9.4	12.0	16.0	32.6	36.3	22.5	15.7	12.4	10.1	13.8
9	4.8	7.0	9.3	12.3	16.9	31.7	36.1	22.0	15.6	12.2	10.1	13.7
10	5.7	8.5	9.4	12.5	18.3	31.0	35.9	21.8	15.5	12.1	9.9	13.5
11	5.5	9.1	9.5	14.0	20.3	31.3	35.6	21.4	15.3	12.0	9.9	13.7
12	6.8	8.8	9.8	15.0	22.1	32.3	35.4	21.1	15.1	11.8	9.9	13.5
13	7.0	9.2	9.8	15.8	22.8	34.6	35.1	21.0	14.9	11.7	9.9	13.4
14	7.9	9.4	9.8	16.8	23.5	36.3	34.6	20.8	14.9	11.2	10.1	13.1
15	7.6	10.0	9.5	18.2	23.4	35.8	34.3	20.4	14.7	11.2	10.3	12.8
16	8.8	10.2	8.3	17.7	22.6	35.0	33.8	20.1	14.5	11.2	10.7	12.5
17	8.9	10.2	8.9	17.3	21.8	34.5	33.5	19.8	14.4	11.2	10.9	12.3
18	9.0	10.3	8.8	17.1	21.8	35.1	33.2	19.4	14.4	11.2	11.0	12.1
19	9.0	10.3	8.7	17.2	21.2	37.0	32.7	19.2	14.4	11.3	11.4	11.8
20	9.2	10.4	8.8	17.3	21.2	39.1	32.3	19.1	14.4	11.4	11.5	11.7
21	11.6	10.7	8.9	17.3	21.2	40.6	32.0	18.9	14.3	11.4	11.5	11.6
22	11.6	11.2	9.5	17.0	21.0	41.0	31.8	18.5	14.3	11.0	12.0	11.7
23	11.3	11.0	9.7	16.8	21.2	40.0	31.6	18.4	14.3	11.6	12.5	11.7
24	11.9	10.0	9.6	17.0	21.6	38.8	30.6	18.2	14.3	11.8	12.6	11.6
25	12.0	10.3	9.7	17.0	22.0	38.0	30.0	18.1	14.2	11.7	12.5	11.5
26	11.6	9.8	10.0	17.0	23.5	37.6	29.1	18.0	14.0	11.7	12.6	12.0
27	11.0	9.7	10.2	17.2	25.5	38.2	28.5	17.9	14.0	11.5	12.9	12.5
28	11.0	9.7	10.5	18.0	27.1	38.8	28.1	17.6	13.7	11.3	13.4	12.5
29	10.8	-----	10.6	18.0	27.6	39.0	27.2	17.4	13.4	11.0	13.5	12.5
30	10.8	-----	11.0	17.5	27.8	38.7	27.0	17.1	13.2	10.7	13.8	12.5
31	11.0	-----	11.2	-----	28.1	-----	26.6	16.9	-----	10.7	-----	12.5

DAILY RIVER STAGES.

*Columbia River system—Snake River, Weiser, Idaho.***1899.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1						5.7	7.2					
2						5.8	7.1					
3						6.0	7.0					
4							6.8					
5						6.7	6.7					
6						6.0	6.4					
7						6.3	6.4					
8						6.1	6.2					
9						6.0	6.0					
10						6.2	5.8					
11						6.4	5.5					
12						6.5	5.3					
13						6.6	5.1					
14						6.4	5.0					
15						6.2	4.8					
16						6.4	4.6					
17						6.7	4.5					
18						7.2	4.3					
19							4.0					
20						7.8	4.3					
21						8.0	4.7					
22						7.9	4.6					
23						7.5	4.5					
24						7.6	4.1					
25							4.0					
26						7.8	3.9					
27						7.9	3.8					
28						7.8	3.7					
29					5.0	7.7	3.5					
30					5.1	7.4	3.3					
31					5.6							

DAILY RIVER STAGES.

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*Columbia River system—Snake River, Lewiston, Idaho.***1898.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1						12.3						
2						12.1						
3						11.8						
4						11.4						
5						10.9						
6						10.7						
7						10.6						
8						10.6						
9						10.9						
10						11.3						
11						11.5						
12						11.6						
13						12.0						
14						11.9						
15						12.1						
16						11.9						
17						11.7						
18						11.6						
19						11.7						
20						11.7						
21						11.3						
22						10.6						
23						10.1						
24					10.4	9.8						
25					10.1	9.3						
26					10.3	9.5						
27					11.3	9.2						
28					13.0	8.8						
29					14.3	8.4						
30					13.7	8.0						
31					13.2							

1899.

1						13.2	16.6					
2						13.7	16.1					
3						14.3	15.7					
4						15.5	15.4					
5						15.7	15.1					
6						15.3	14.6					
7						14.3	14.1					
8					9.4	13.5	14.0					
9					10.7	13.3	13.9					
10					12.9	13.5	13.7					
11					13.1	14.8	13.4					
12					13.7	17.4	12.8					
13					13.4	17.3	12.4					
14					13.1	16.1	11.9					
15					12.3	15.2	11.5					
16					11.8	15.2	10.9					
17					11.5	16.4	10.6					
18					11.3	18.3	10.3					
19					11.0	19.6	10.0					
20					10.8	20.6	9.8					
21					10.5	20.4	9.4					
22					10.3	18.5	9.2					
23					10.5	17.3	8.8					
24					11.2	16.6	8.5					
25					12.6	16.8						
26					14.0	17.3						
27					14.2	17.8						
28					13.7	17.0						
29					13.5	16.6						
30					13.3	16.8						
31					13.1							

DAILY RIVER STAGES.

Columbia River system—Willamette River, Eugene, Oreg.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.2	5.0	8.0	5.2	4.8	5.8	-----	-----	-----	-----	-----	4.0
2	9.0	5.6	6.8	5.0	7.0	5.6	-----	-----	-----	-----	-----	5.4
3	6.8	6.0	6.0	4.8	8.4	5.2	-----	-----	-----	-----	-----	5.4
4	5.8	5.6	5.4	4.6	8.8	4.8	-----	-----	-----	-----	-----	5.8
5	5.8	5.4	5.2	4.4	8.2	4.8	-----	-----	-----	-----	-----	6.4
6	5.6	5.6	5.2	4.4	7.8	4.8	-----	-----	-----	-----	-----	10.4
7	5.8	5.2	5.8	4.6	7.2	4.6	-----	-----	-----	-----	-----	8.4
8	6.6	5.0	7.2	5.0	6.4	4.6	-----	-----	-----	-----	-----	7.8
9	7.4	4.8	6.8	6.0	6.2	5.0	-----	-----	-----	-----	-----	7.2
10	6.6	4.6	6.2	6.6	6.4	5.0	-----	-----	-----	-----	-----	6.0
11	6.0	4.4	6.0	6.8	7.0	4.6	-----	-----	-----	-----	-----	5.4
12	5.0	4.2	6.0	9.6	8.6	4.6	-----	-----	-----	-----	-----	6.0
13	4.8	4.0	5.8	14.4	7.2	4.6	-----	-----	-----	-----	-----	11.6
14	4.4	4.0	5.6	13.6	6.2	4.4	-----	-----	-----	-----	-----	10.2
15	4.4	4.0	5.2	10.0	5.8	4.4	-----	-----	-----	-----	-----	8.4
16	9.6	4.0	4.8	8.0	5.4	4.6	-----	-----	-----	-----	-----	7.2
17	14.0	4.0	4.8	7.0	6.4	4.8	-----	-----	-----	-----	-----	7.0
18	12.2	4.0	4.8	6.6	6.0	4.8	-----	-----	-----	-----	-----	6.4
19	10.2	4.0	4.8	6.0	5.8	4.8	-----	-----	-----	-----	-----	5.8
20	9.0	4.0	5.4	5.4	5.4	4.6	-----	-----	-----	-----	-----	5.6
21	16.6	4.0	6.0	5.2	5.4	4.4	-----	-----	-----	-----	-----	5.4
22	15.6	4.0	6.4	5.2	5.2	4.4	-----	-----	-----	-----	-----	5.0
23	10.2	4.0	6.0	5.4	5.8	4.4	-----	-----	-----	-----	-----	4.8
24	9.0	3.8	7.0	5.4	5.8	4.2	-----	-----	-----	-----	-----	4.4
25	7.6	4.2	10.0	5.8	5.6	4.2	-----	-----	-----	-----	-----	4.2
26	6.6	4.8	8.0	5.8	5.8	4.2	-----	-----	-----	-----	-----	4.0
27	6.4	6.4	7.0	5.4	6.0	4.2	-----	-----	-----	-----	-----	4.2
28	6.0	11.4	6.2	5.2	6.0	4.4	-----	-----	-----	-----	-----	4.4
29	5.8	9.6	6.0	4.8	6.2	4.2	-----	-----	-----	-----	-----	4.4
30	5.4	-----	5.8	4.8	6.6	4.0	-----	-----	-----	-----	-----	5.0
31	5.0	-----	5.4	-----	6.2	-----	-----	-----	-----	-----	-----	7.0

1897.

1	7.6	4.8	4.6	6.2	4.4	3.2	-----	-----	-----	-----	-----	6.6
2	6.2	5.4	4.4	6.0	4.6	3.0	-----	-----	-----	-----	-----	5.6
3	5.4	5.8	4.2	6.0	4.4	3.0	-----	-----	-----	-----	-----	4.8
4	5.6	5.8	4.2	6.0	4.4	3.0	-----	-----	-----	-----	-----	4.4
5	5.4	8.0	4.2	5.8	4.4	3.0	-----	-----	-----	-----	-----	5.0
6	5.0	10.8	4.2	6.0	4.8	3.0	-----	-----	-----	-----	-----	7.4
7	4.8	8.6	4.0	8.0	5.0	3.0	-----	-----	-----	-----	-----	9.6
8	4.6	7.0	4.0	6.8	4.6	3.0	-----	-----	-----	-----	-----	9.2
9	4.4	6.0	4.2	6.8	4.2	2.8	-----	-----	-----	-----	-----	8.4
10	4.2	6.0	5.0	8.0	4.2	2.8	-----	-----	-----	-----	-----	7.8
11	4.0	5.8	4.8	7.6	4.6	2.8	-----	-----	-----	-----	-----	8.2
12	4.0	6.4	4.6	6.8	4.6	2.6	-----	-----	-----	-----	-----	11.6
13	3.8	7.6	4.2	6.4	4.8	2.6	-----	-----	-----	-----	-----	9.0
14	3.6	6.6	4.2	6.8	5.2	2.6	-----	-----	-----	-----	-----	12.4
15	3.6	10.0	4.4	7.2	5.2	2.8	-----	-----	-----	-----	-----	9.8
16	3.4	12.0	5.0	7.6	5.0	2.8	-----	-----	-----	-----	-----	8.2
17	3.2	9.0	5.4	8.0	5.0	2.8	-----	-----	-----	-----	-----	7.2
18	3.4	7.0	5.6	8.0	4.8	3.0	-----	-----	-----	-----	-----	6.6
19	3.6	6.2	5.6	7.4	4.4	3.2	-----	-----	-----	-----	-----	6.0
20	4.0	5.8	5.4	7.0	4.4	3.2	-----	-----	-----	-----	-----	5.6
21	4.8	5.0	4.8	6.6	4.2	3.0	-----	-----	-----	-----	-----	5.0
22	4.6	4.8	4.4	6.2	4.2	3.0	-----	-----	-----	-----	-----	4.6
23	4.4	4.0	4.4	5.6	4.0	3.6	-----	-----	-----	-----	-----	4.4
24	4.2	3.8	6.4	5.4	4.0	3.6	-----	-----	-----	-----	-----	4.4
25	4.2	3.6	12.4	5.0	3.8	3.6	-----	-----	-----	-----	-----	4.6
26	4.0	3.4	10.8	5.0	3.8	4.0	-----	-----	-----	-----	-----	5.0
27	4.0	3.2	8.2	5.6	3.6	4.4	-----	-----	-----	-----	-----	5.8
28	4.0	4.0	8.8	5.2	3.4	4.0	-----	-----	-----	-----	-----	5.4
29	4.0	-----	8.6	4.8	3.2	4.0	-----	-----	-----	-----	-----	5.2
30	5.0	-----	7.0	4.4	3.4	3.4	-----	-----	-----	-----	-----	5.0
31	5.0	-----	6.2	-----	3.6	-----	-----	-----	-----	-----	-----	4.6

DAILY RIVER STAGES.

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Columbia River system—Willamette River, Eugene, Oreg.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.4	3.8	4.4	4.0	3.6	4.6						10.6
2	4.2	4.0	4.2	4.2	3.4	5.0						10.8
3	4.0	4.4	4.2	3.8	3.2	4.6						8.2
4	4.0	5.4	4.2	3.6	3.2	4.2						6.8
5	3.6	5.2	4.0	3.6	3.2	4.0						6.0
6	3.6	5.8	3.8	4.4	3.2	3.6						5.2
7	4.0	5.4	3.8	4.6	3.0	3.4						4.6
8	5.6	6.6	4.2	5.2	3.0	3.4						4.2
9	4.2	6.0	4.2	5.2	2.8	3.4						4.0
10	4.0	5.8	3.8	5.4	2.8	3.2						3.6
11	3.8	5.2	3.6	5.0	3.0	3.2						3.4
12	3.6	5.4	3.4	4.6	3.0	3.0						3.2
13	3.6	5.8	3.6	5.0	3.0	3.0						3.2
14	3.8	5.8	3.4	5.2	3.0	2.8						3.2
15	4.6	5.8	3.6	5.2	3.2	2.8						3.2
16	4.6	6.0	3.6	5.0	3.2	3.6						3.0
17	4.8	5.8	3.4	4.6	3.0	3.6						2.8
18	4.8	5.4	3.4	4.4	3.0	3.2						4.4
19	6.2	5.2	3.4	4.0	3.2	3.0						5.4
20	6.8	5.2	3.2	4.0	3.0	3.0						6.8
21	6.4	7.2	3.6	4.0	3.0	2.8						7.2
22	6.0	6.4	3.8	4.4	4.0	2.8						6.0
23	5.8	5.8	3.4	4.4	3.6	2.6						5.2
24	5.2	5.4	3.4	4.2	3.2	2.6						4.6
25	5.4	5.2	3.8	4.2	3.0	2.6						4.4
26	5.2	5.0	3.6	4.4	3.0	2.4						4.0
27	4.6	4.6	3.6	4.6	3.0	2.4						3.8
28	4.0	4.4	3.8	4.2	3.0	2.4						4.2
29	4.0		4.0	4.0	3.6	2.4						5.4
30	3.8		3.8	3.8	4.2	2.4						4.8
31	3.8		3.8		4.2							4.6

1899.

1	5.0	5.0	16.4	6.0	6.8	6.6						8.4
2	6.0	4.8	13.4	6.0	6.6	6.4						8.0
3	6.0	4.6	11.4	5.8	6.4	6.4						7.0
4	5.4	4.6	9.0	7.0	6.0	6.2						6.2
5	5.0	4.4	7.8	6.0	6.2	6.2						7.0
6	5.0	4.4	7.8	6.0	6.4	6.0						6.4
7	5.6	4.6	6.6	6.0	6.0	6.0						6.2
8	5.6	6.8	7.2	6.2	5.8	5.6						6.0
9	5.4	12.6	7.0	6.4	6.0	5.4						5.8
10	6.8	12.2	6.4	6.8	6.2	6.0						5.8
11	7.4	9.8	6.0	6.8	6.2	6.0						14.4
12	6.6	8.4	5.8	6.8	6.0	6.2						13.6
13	6.2	7.2	6.2	7.6	5.8	6.0						9.8
14	6.8	6.6	6.2	6.4	5.4	5.6						9.0
15	5.2	6.6	8.0	6.2	5.0	5.4						8.4
16	13.0	6.4	7.8	6.4	4.8	5.4						8.0
17	10.0	6.0	7.4	6.2	4.6	5.4						7.6
18	9.8	6.0	7.0	6.0	4.8	6.0						7.2
19	9.2	6.0	7.0	6.0	4.8	6.2						6.4
20	10.0	6.0	6.8	6.0	4.8	6.2						6.0
21	10.6	5.8	6.6	5.6	4.8	6.0						6.4
22	10.4	5.6	6.4	5.4	5.4	5.4						7.4
23	8.6	5.4	7.0	5.2	5.0	4.8						6.4
24	7.6	5.4	8.6	5.0	4.8	4.8						6.2
25	6.6	5.4	9.8	5.0	5.0	4.8						6.0
26	6.2	7.4	8.2	5.2	6.4	5.0						5.8
27	5.4	7.6	6.4	6.0	6.6	5.0						6.0
28	5.2	10.4	6.6	6.2	6.4	5.2						5.2
29	5.0		6.4	6.4	6.2	5.2						5.0
30	4.8		6.4	6.6	6.0	4.8						4.8
31	4.6		6.2		6.0							5.2

DAILY RIVER STAGES.

Columbia River system—Willamette River, Albany, Oreg.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.4	7.4	15.4	6.5	6.3	7.5	4.4	1.8	1.2	1.0	2.5	5.4
2	14.0	8.0	12.7	6.4	7.5	7.0	4.3	1.8	1.5	1.0	3.4	6.4
3	14.0	8.5	10.0	6.0	10.5	6.5	4.2	1.8	1.7	1.0	3.6	8.5
4	10.4	8.0	8.5	5.7	12.5	6.3	4.1	1.7	1.6	1.0	3.8	8.5
5	8.9	7.6	7.8	5.6	15.4	6.2	4.0	1.7	1.5	1.0	3.0	8.5
6	8.0	7.5	7.5	5.4	13.8	6.0	3.9	1.6	1.4	1.0	3.5	10.4
7	8.0	7.0	7.6	5.5	11.6	5.9	3.8	1.6	1.3	1.0	3.2	13.5
8	8.4	6.7	9.0	6.0	10.6	5.8	3.7	1.5	1.2	1.0	4.4	12.4
9	9.0	6.5	10.5	6.5	9.7	5.7	3.6	1.5	1.1	1.0	9.5	11.5
10	10.0	6.3	9.0	7.6	9.1	5.6	3.5	1.4	1.0	1.0	14.5	10.3
11	9.2	5.9	8.8	8.4	9.5	5.5	3.3	1.4	1.0	1.0	14.5	9.0
12	8.1	5.5	8.6	9.9	10.5	5.4	3.1	1.3	1.0	0.9	11.5	9.2
13	7.0	5.3	8.0	11.5	11.5	5.4	3.0	1.3	1.0	0.9	9.0	11.0
14	6.2	5.1	7.7	16.0	10.0	5.4	2.8	1.2	1.0	0.9	8.0	15.5
15	5.6	5.0	7.5	20.8	8.8	5.3	2.7	1.2	1.0	0.9	11.5	18.0
16	7.2	5.0	6.4	18.5	8.0	5.3	2.6	1.2	1.0	0.8	18.5	15.0
17	13.0	5.0	5.6	14.0	8.2	5.2	2.5	1.2	1.0	0.8	27.4	12.0
18	18.2	4.8	5.7	11.0	8.5	5.2	2.4	1.1	1.0	0.8	28.5	10.2
19	20.8	4.5	5.8	9.6	8.3	5.1	2.3	1.1	1.0	0.8	25.6	9.6
20	19.4	4.2	6.0	8.7	7.8	5.1	2.2	1.1	1.0	0.8	18.5	8.8
21	18.0	4.2	6.2	7.5	7.4	5.0	2.1	1.1	1.0	0.8	12.7	8.0
22	20.6	4.3	7.3	7.3	6.8	5.0	2.0	1.0	1.0	0.8	11.8	7.2
23	25.0	4.4	8.5	6.5	7.0	5.0	2.0	1.0	1.0	0.8	12.5	6.6
24	21.4	4.5	8.0	7.2	7.2	4.9	2.0	1.0	1.0	0.8	11.8	6.9
25	15.9	4.7	8.5	7.5	7.4	4.8	2.0	1.0	1.0	0.8	10.0	5.7
26	12.5	5.0	13.9	7.5	7.4	4.7	2.0	1.0	1.0	0.8	8.5	5.2
27	10.5	8.6	11.8	7.5	7.4	4.7	1.9	1.0	1.0	0.8	7.6	5.3
28	10.0	9.4	9.7	6.6	7.4	4.6	1.9	1.0	1.0	0.9	6.5	5.4
29	9.5	13.0	8.6	6.5	7.5	4.5	1.8	1.0	1.0	1.0	6.0	5.9
30	8.6	-----	8.0	6.4	7.5	4.5	1.8	1.0	1.0	1.1	5.5	6.4
31	7.9	-----	7.5	-----	7.5	-----	1.8	1.0	-----	1.3	-----	7.9

1897.

1	10.4	7.3	5.6	10.3	4.9	3.8	3.4	1.3	1.0	1.0	1.0	10.4
2	10.8	7.2	5.8	9.8	5.0	3.6	3.0	1.3	1.2	1.0	1.0	9.4
3	9.3	7.0	6.0	9.2	5.1	3.4	3.1	1.3	1.3	1.0	1.0	7.8
4	8.0	8.4	5.3	8.6	5.3	3.2	3.2	1.2	1.4	1.0	1.0	6.5
5	7.2	10.3	5.5	8.5	5.4	3.1	3.3	1.2	1.5	1.0	1.2	6.3
6	6.8	13.7	5.5	8.4	5.7	3.0	3.3	1.2	1.5	1.0	1.4	8.5
7	6.5	16.3	5.5	9.4	6.0	3.0	3.2	1.2	1.5	1.0	1.8	12.4
8	6.2	14.5	5.5	11.2	5.8	2.9	3.1	1.2	1.5	1.0	2.4	15.4
9	6.0	11.5	6.0	9.5	5.3	2.9	3.0	1.2	1.5	1.0	2.2	15.5
10	5.6	10.3	6.5	10.0	5.0	2.8	2.8	1.3	1.4	1.0	3.0	15.4
11	5.3	9.2	6.5	10.5	5.2	2.7	2.6	1.3	1.4	1.0	5.5	14.1
12	5.0	11.3	6.4	10.0	5.5	2.6	2.5	1.3	1.3	1.0	6.6	14.4
13	4.8	13.9	6.2	9.4	5.2	2.6	2.4	1.2	1.3	1.0	5.5	17.4
14	4.6	13.2	6.0	9.4	6.0	2.6	2.3	1.2	1.3	1.0	7.4	16.5
15	4.5	12.0	6.2	9.5	6.0	2.7	2.2	1.2	1.3	1.0	7.8	17.2
16	4.4	15.3	6.7	9.8	6.0	2.8	2.1	1.2	1.2	1.0	6.5	17.5
17	4.3	18.4	7.0	10.1	5.9	3.0	2.1	1.1	1.2	1.0	5.5	13.5
18	4.2	17.0	7.4	10.4	5.8	3.1	2.0	1.1	1.2	1.0	6.0	11.5
19	4.4	12.5	7.7	10.5	5.7	3.2	1.9	1.1	1.1	1.0	8.2	9.5
20	4.6	10.0	8.0	10.5	5.5	3.0	1.8	1.1	1.1	1.1	10.5	8.6
21	6.5	9.0	7.3	9.8	5.3	2.9	1.7	1.1	1.1	1.2	14.2	7.0
22	6.5	8.0	6.5	9.0	5.1	3.1	1.6	1.1	1.0	1.5	12.0	7.0
23	6.0	7.0	6.5	8.6	4.9	3.3	1.6	1.0	1.0	1.7	10.1	6.2
24	5.4	6.5	7.3	8.0	4.7	3.4	1.5	1.0	1.0	1.8	9.5	6.0
25	5.4	5.2	10.5	7.5	4.5	3.5	1.5	1.0	1.0	1.8	8.3	6.0
26	5.4	5.0	15.2	6.5	4.3	3.5	1.5	1.0	1.0	2.5	7.0	6.5
27	5.2	5.0	17.5	6.9	4.1	3.9	1.4	1.0	1.0	2.0	6.9	7.5
28	5.0	5.3	14.5	7.4	3.9	4.3	1.4	1.0	1.0	1.7	5.7	7.5
29	5.5	-----	14.0	6.7	3.8	3.9	1.4	1.0	1.0	1.5	4.8	7.2
30	6.0	-----	13.8	6.0	3.9	3.5	1.4	1.0	1.0	1.3	6.0	7.0
31	7.3	-----	11.5	-----	4.0	-----	1.3	1.0	-----	1.2	-----	6.7

DAILY RIVER STAGES.

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Columbia River system—Willamette River, Albany, Oreg.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		4.0	5.5	4.0	4.0	4.0	2.0	1.0	0.7	1.5	1.2	12.4
2		4.0	5.5	3.8	4.0	4.5	2.0	1.0	0.7	2.0	1.8	13.5
3		4.2	5.5	3.8	3.5	4.5	2.0	1.0	0.7	1.5	2.3	14.5
4		5.2	5.5	3.8	3.5	4.3	1.9	0.9	0.7	1.1	2.5	12.0
5		6.0	5.3	3.8	3.3	3.9	1.9	0.9	0.7	1.0	3.0	9.5
6		6.8	5.2	3.8	3.1	3.5	1.9	0.9	0.7	1.0	2.8	8.4
7		8.4	4.6	4.5	3.0	3.3	1.9	0.9	0.7	1.0	2.5	7.0
8		10.3	4.5	4.5	3.0	3.0	1.9	0.9	0.7	1.0	2.3	6.0
9		10.0	4.5	4.8	3.0	3.0	1.8	0.9	0.7	1.0	2.0	5.0
10		8.5	4.5	5.2	2.8	3.0	1.8	0.9	0.7	1.0	1.8	5.0
11		8.0	4.0	5.5	2.8	3.0	1.7	0.9	0.7	1.0	1.6	4.6
12		7.7	4.0	5.2	3.0	3.0	1.6	0.9	0.7	1.0	1.6	4.2
13		7.5	3.8	5.0	3.0	3.0	1.4	0.8	0.7	1.0	1.5	4.0
14		7.5	3.8	5.0	3.0	2.8	1.3	0.8	0.7	1.0	1.3	3.6
15		7.5	4.0	5.0	3.0	2.0	1.1	0.8	0.7	1.0	1.0	3.5
16		7.8	4.0	5.5	3.0	2.5	1.0	0.8	0.7	1.1	1.2	3.5
17		8.0	4.0	5.2	3.0	3.0	1.0	0.8	0.7	1.1	1.5	4.3
18		7.5	3.8	5.0	3.0	3.0	1.0	0.8	0.7	1.1	3.9	4.8
19		7.0	3.6	4.5	3.0	3.0	1.0	0.8	0.7	1.1	11.9	5.4
20		7.1	3.5	4.0	3.0	3.0	1.0	0.7	0.8	1.0	16.4	6.5
21		7.2	3.5	4.0	3.0	3.0	1.0	0.7	0.8	1.0	13.0	8.5
22		7.1	3.8	4.2	3.2	2.8	1.0	0.7	0.9	1.0	9.0	9.0
23		7.0	4.0	4.3	3.5	2.8	1.0	0.7	0.9	1.0	8.5	7.6
24		6.9	4.0	4.6	3.5	2.6	1.0	0.7	1.0	1.0	9.0	6.7
25		6.8	3.8	5.0	3.0	2.4	1.0	0.7	1.0	1.0	10.4	5.8
26		6.5	4.0	5.0	2.8	2.2	1.0	0.7	1.3	1.0	8.4	5.5
27		5.0	4.0	5.0	3.0	2.0	1.0	0.7	1.5	1.0	7.2	4.8
28		5.5	3.9	5.0	2.8	2.0	1.0	0.7	1.5	1.0	6.5	4.5
29			4.0	4.5	3.0	2.0	1.0	0.7	1.3	1.0	9.5	5.7
30			4.0	4.7	3.5	2.0	1.0	0.7	1.0	1.0	10.5	5.8
31			4.0		3.9		1.0	0.7		1.0		6.4

1899.

1	6.5	6.0	14.5	7.4	8.0	7.0	5.0	2.1	2.5	1.5	3.0	15.5
2	6.6	6.5	21.0	5.2	8.4	7.5	5.0	2.0	2.4	1.6	2.9	13.5
3	8.5	6.1	23.0	6.0	8.2	8.0	5.0	2.0	2.4	1.7	2.8	12.5
4	8.7	5.5	19.8	6.0	7.5	7.8	5.0	1.9	2.5	1.8	2.7	10.0
5	8.0	5.1	15.0	7.8	7.3	7.6	5.0	1.9	2.5	1.7	2.7	9.0
6	7.4	4.8	12.0	7.0	7.4	7.4	4.9	1.9	2.5	1.6	2.6	9.0
7	7.5	4.1	10.0	7.0	7.3	7.7	4.8	1.9	2.5	1.7	2.6	8.0
8	7.6	5.5	9.5	7.0	6.8	6.5	4.6	1.9	2.4	1.6	2.7	7.5
9	7.7	10.4	9.5	7.5	6.5	6.2	4.4	1.8	2.3	1.5	2.8	7.5
10	7.9	16.4	9.4	7.9	7.4	6.4	4.2	1.8	2.1	1.4	3.1	7.0
11	9.4	18.4	8.5	8.6	7.5	6.9	4.1	1.8	2.0	1.3	3.0	8.6
12	10.0	15.8	8.3	8.0	7.4	7.5	4.1	1.8	2.0	1.3	3.0	14.2
13	9.5	12.4	8.0	9.4	7.4	7.2	4.0	1.8	1.9	1.3	3.1	21.2
14	8.5	10.5	8.5	9.5	6.8	6.8	4.0	1.8	1.9	1.2	3.0	17.2
15	8.5	9.5	8.9	8.5	6.0	6.6	4.0	1.8	1.8	1.2	3.0	14.2
16	8.9	9.2	10.0	8.0	5.8	6.4	4.0	1.8	1.7	1.2	3.0	12.5
17	14.1	8.6	10.4	7.6	5.4	6.5	4.0	1.8	1.7	1.6	3.1	12.2
18	14.5	8.0	9.8	7.5	5.2	6.6	3.9	1.8	1.6	2.1	3.8	11.2
19	13.4	8.0	8.0	7.4	5.3	6.7	3.8	1.9	1.6	3.2	4.3	9.5
20	13.7	8.0	8.4	7.5	5.5	6.8	3.7	1.9	1.6	8.6	4.8	8.5
21	14.4	7.7	8.5	7.2	5.3	6.9	3.5	2.0	1.6	11.5	6.7	7.6
22	16.6	7.4	9.0	7.0	5.2	6.4	3.3	2.0	1.6	7.5	6.5	8.4
23	16.4	6.7	8.5	6.8	5.3	5.0	3.1	2.2	1.5	6.5	6.0	9.0
24	13.5	6.5	7.9	6.5	5.5	5.5	3.0	2.4	1.5	5.7	5.4	8.2
25	11.0	6.5	11.0	6.5	5.8	5.5	2.9	2.5	1.5	5.0	4.8	7.4
26	9.5	7.5	10.0	6.5	6.6	5.5	2.8	2.6	1.5	4.8	5.0	7.3
27	8.5	8.5	9.5	6.5	7.4	5.5	2.7	2.8	1.4	4.0	6.5	6.5
28	7.6	10.4	8.1	7.5	7.6	5.6	2.6	3.0	1.4	3.7	10.0	6.4
29	6.9		7.9	7.6	7.8	5.6	2.4	3.0	1.4	3.6	13.3	5.5
30	6.4		7.8	7.8	7.5	5.5	2.3	2.8	1.4	3.5	14.9	5.5
31	6.0		7.5		7.1		2.2	2.7		3.3		6.0

DAILY RIVER STAGES.

Columbia River system—Willamette River, Salem, Oreg.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.2	7.8	13.0	6.8	6.1	8.7	-----	-----	-----	-----	-----	5.8
2	13.0	7.6	12.1	6.6	8.0	8.4	-----	-----	-----	-----	-----	6.5
3	13.6	7.3	10.6	6.4	10.5	8.2	-----	-----	-----	-----	-----	7.9
4	11.0	7.8	8.3	6.2	13.4	8.0	-----	-----	-----	-----	-----	9.4
5	10.4	7.9	7.8	6.1	14.5	7.8	-----	-----	-----	-----	-----	10.6
6	10.0	8.3	7.8	6.0	14.0	7.4	-----	-----	-----	-----	-----	10.0
7	9.8	8.0	7.9	6.4	13.2	7.2	-----	-----	-----	-----	-----	9.4
8	10.5	7.5	8.0	6.7	12.0	7.0	-----	-----	-----	-----	-----	8.8
9	10.3	7.0	8.2	7.0	11.1	6.8	-----	-----	-----	-----	-----	8.6
10	10.6	6.5	8.4	8.6	10.0	6.5	-----	-----	-----	-----	-----	9.0
11	9.9	6.0	8.3	10.9	9.4	6.3	-----	-----	-----	-----	-----	10.0
12	9.4	5.5	8.2	11.4	8.6	6.0	-----	-----	-----	-----	-----	11.5
13	8.6	5.3	8.0	12.0	8.2	5.6	-----	-----	-----	-----	-----	14.2
14	7.0	5.2	7.8	14.1	8.7	5.4	-----	-----	-----	-----	-----	16.0
15	7.9	5.1	7.3	16.3	9.0	5.3	-----	-----	-----	-----	-----	15.5
16	8.8	5.0	7.1	17.4	9.2	5.3	-----	-----	-----	-----	-----	14.2
17	10.7	4.9	6.8	14.6	9.0	5.6	-----	-----	-----	-----	-----	13.0
18	16.3	4.9	6.6	12.0	8.4	5.8	-----	-----	-----	-----	-----	12.0
19	18.4	4.7	6.9	11.0	8.0	5.6	-----	-----	-----	-----	-----	11.2
20	18.7	5.0	7.2	10.0	7.7	5.4	-----	-----	-----	-----	-----	10.7
21	19.2	5.3	7.6	9.0	7.5	5.3	-----	-----	-----	-----	-----	8.5
22	20.0	5.5	7.9	8.2	7.4	5.2	-----	-----	-----	-----	-----	7.8
23	21.3	5.4	8.6	7.4	7.2	5.1	-----	-----	-----	-----	-----	6.9
24	21.1	5.9	9.0	7.0	7.4	5.0	-----	-----	-----	-----	-----	6.2
25	16.8	6.8	10.0	7.2	7.5	4.9	-----	-----	-----	-----	-----	6.6
26	12.6	8.0	11.0	7.2	7.7	4.7	-----	-----	-----	-----	-----	6.9
27	10.8	9.5	12.0	7.1	7.6	4.4	-----	-----	-----	-----	-----	7.5
28	10.2	11.0	11.0	7.0	7.9	4.1	-----	-----	-----	-----	-----	8.0
29	9.9	12.5	9.2	6.8	8.2	4.0	-----	-----	-----	-----	-----	8.7
30	8.8	-----	8.1	6.3	8.4	3.9	-----	-----	-----	-----	-----	9.2
31	8.4	-----	6.9	-----	8.6	-----	-----	-----	-----	-----	-----	9.4

1897.

1	9.6	7.9	6.0	10.5	6.0	3.8	-----	-----	-----	-2.0	-----	11.8
2	9.4	7.7	6.0	9.8	5.9	3.7	-----	-----	-----	-2.0	-----	10.5
3	9.3	7.8	5.9	9.4	5.6	3.6	-----	-----	-----	-2.0	-----	9.8
4	9.1	9.7	5.5	8.9	5.6	3.5	-----	-----	-----	-2.0	-----	8.5
5	8.8	12.5	5.5	8.6	5.6	3.4	-----	-----	-----	-2.0	-----	7.7
6	8.6	14.8	5.6	8.7	5.8	3.2	-----	-----	-----	-2.0	-----	11.0
7	8.5	15.5	5.4	9.1	6.1	2.9	-----	-----	-----	-2.0	-----	15.1
8	8.5	14.4	5.5	10.6	6.1	2.8	-----	-----	-----	-2.0	-----	16.3
9	8.4	12.0	5.6	10.3	5.8	2.7	-----	-----	-----	-2.0	-----	16.9
10	8.3	10.4	6.3	9.7	5.5	2.6	-----	-----	-----	-2.0	-----	15.8
11	8.2	10.0	6.9	11.0	5.5	2.6	-----	-----	-----	-2.0	-----	15.2
12	8.0	14.0	6.6	10.6	5.7	2.6	-----	-----	-----	-2.0	-----	16.0
13	7.9	14.7	6.5	9.1	5.9	2.6	-----	-----	-----	-2.0	-----	16.2
14	7.8	13.3	6.3	9.4	6.2	2.6	-----	-----	-----	-2.0	-----	17.5
15	7.5	13.2	6.1	9.9	6.2	2.6	-----	-----	-----	-2.0	-----	17.7
16	7.4	17.0	6.0	10.4	6.1	2.6	-----	-----	-----	-2.0	-----	16.7
17	7.6	17.6	6.0	11.0	6.0	2.8	-----	-----	-----	-2.0	-----	14.3
18	7.6	16.5	7.1	11.5	5.9	3.0	-----	-----	-----	-2.0	-----	11.7
19	7.9	13.3	7.5	11.5	5.7	3.4	-----	-----	-----	-2.0	-----	10.0
20	8.2	10.6	7.6	11.6	5.4	3.4	-----	-----	-----	-1.0	-----	9.0
21	8.0	9.4	7.2	11.0	5.3	3.4	-----	-----	-----	-0.8	-----	8.0
22	7.7	8.0	6.8	10.1	5.0	3.3	-----	-----	-----	-1.0	-----	7.2
23	7.8	7.3	6.3	9.2	4.7	3.5	-----	-----	-----	-1.3	-----	6.7
24	7.9	6.6	8.4	8.4	4.5	3.7	-----	-----	-----	-1.3	-----	6.5
25	7.6	6.0	13.0	7.6	4.4	3.6	-----	-----	-----	-1.3	-----	6.7
26	7.4	5.7	16.5	7.5	4.3	3.6	-----	-----	-----	-1.7	-----	7.0
27	7.5	5.6	16.4	7.5	4.1	3.9	-----	-----	-----	-1.9	-----	8.8
28	7.5	5.6	15.1	7.4	3.9	4.2	-----	-----	-----	-1.9	-----	9.6
29	7.6	-----	14.6	6.9	3.9	3.9	-----	-----	-----	-1.6	-----	10.5
30	7.8	-----	13.0	6.4	3.8	3.8	-----	-----	-----	-1.6	-----	10.0
31	8.0	-----	11.5	-----	3.7	-----	-----	-----	-----	-1.3	-----	9.3

DAILY RIVER STAGES.

119

Columbia River system—Willamette River, Salem, Oreg.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.6	4.8	6.2	4.0	4.2	3.8	-----	-----	-----	-----	-----	12.0
2	7.0	4.5	6.0	4.0	4.0	4.5	-----	-----	-----	-----	-----	13.4
3	6.5	4.7	5.9	3.9	3.8	4.0	-----	-----	-----	-----	-----	13.5
4	6.0	5.7	6.0	3.8	3.8	4.0	-----	-----	-----	-----	-----	12.0
5	5.6	6.0	6.0	3.8	3.6	3.8	-----	-----	-----	-----	-----	10.1
6	5.5	7.8	5.5	3.8	3.5	3.8	-----	-----	-----	-----	-----	9.0
7	5.5	10.5	5.2	3.9	3.5	3.6	-----	-----	-----	-----	-----	7.2
8	5.6	12.5	5.0	4.8	3.4	3.4	-----	-----	-----	-----	-----	6.3
9	5.8	11.8	5.0	5.0	3.1	3.3	-----	-----	-----	-----	-----	5.6
10	5.5	10.4	4.9	5.8	3.2	3.0	-----	-----	-----	-----	-----	5.1
11	5.2	9.4	4.7	5.9	3.1	3.0	-----	-----	-----	-----	-----	4.8
12	5.0	9.0	4.1	5.5	3.2	3.0	-----	-----	-----	-----	-----	4.5
13	4.7	9.4	4.2	5.4	3.2	3.0	-----	-----	-----	-----	-----	4.0
14	4.9	9.3	4.3	5.6	3.3	2.8	-----	-----	-----	-----	-----	3.8
15	5.1	9.4	4.5	5.5	3.4	3.0	-----	-----	-----	-----	-----	3.5
16	5.2	9.8	4.6	5.2	3.3	2.8	-----	-----	-----	-----	-----	3.4
17	6.2	9.8	4.2	5.5	3.2	2.8	-----	-----	-----	-----	-----	3.3
18	6.4	9.0	4.0	5.4	3.2	3.0	-----	-----	-----	-----	-----	3.2
19	7.4	8.2	3.9	5.3	3.2	2.9	-----	-----	-----	-----	-----	6.0
20	9.1	7.6	4.0	5.3	3.2	2.8	-----	-----	-----	-----	-----	7.5
21	9.5	8.6	4.0	5.2	3.4	2.8	-----	-----	-----	-----	-----	9.0
22	9.0	9.4	4.0	5.5	3.5	2.7	-----	-----	-----	-----	-----	8.9
23	8.5	9.0	4.0	5.7	3.6	2.7	-----	-----	-----	-----	-----	7.9
24	7.8	8.0	3.9	6.0	3.5	2.6	-----	-----	-----	-----	-----	6.8
25	7.0	7.5	3.9	5.8	3.4	2.5	-----	-----	-----	-----	-----	6.0
26	6.2	7.0	4.0	5.7	3.2	2.4	-----	-----	-----	-----	-----	5.5
27	5.8	6.4	4.0	6.0	3.2	2.2	-----	-----	-----	-----	-----	5.0
28	5.5	6.1	3.9	5.5	3.2	2.0	-----	-----	-----	-----	-----	5.0
29	5.0	-----	4.0	5.0	3.3	2.0	-----	-----	-----	-----	-----	5.2
30	5.0	-----	3.9	4.5	3.5	2.0	-----	-----	-----	-----	-----	7.2
31	4.8	-----	4.0	-----	3.5	-----	-----	-----	-----	-----	-----	6.8

1899.

1	6.8	6.8	15.5	7.0	8.2	7.5	5.1	-----	-----	-----	-----	15.6
2	7.0	7.0	18.4	6.8	8.5	8.1	5.0	-----	-----	-----	-----	15.0
3	8.4	6.8	20.4	7.0	8.0	8.3	4.9	-----	-----	-----	-----	14.5
4	8.4	5.5	20.2	7.1	7.5	8.0	5.0	-----	-----	-----	-----	14.3
5	8.6	5.0	15.4	8.0	7.6	7.7	5.0	-----	-----	-----	-----	14.0
6	7.0	4.8	12.0	7.8	7.8	7.4	5.7	-----	-----	-----	-----	14.2
7	7.3	5.0	10.0	7.1	7.3	7.0	5.5	-----	-----	-----	-----	14.8
8	7.5	5.9	10.5	7.5	7.1	6.8	4.3	-----	-----	-----	-----	15.5
9	7.6	12.9	9.8	7.9	7.0	6.7	4.3	-----	-----	-----	-----	15.3
10	8.2	16.9	9.7	8.0	7.8	7.0	4.1	-----	-----	-----	-----	16.0
11	9.0	18.0	8.7	8.5	7.9	7.2	4.0	-----	-----	-----	-----	16.7
12	10.8	16.5	8.0	11.0	8.0	7.1	4.0	-----	-----	-----	-----	17.0
13	10.0	13.5	8.0	12.9	7.5	7.2	3.9	-----	-----	-----	-----	16.5
14	9.0	12.0	8.2	11.0	7.0	7.3	3.9	-----	-----	-----	-----	16.0
15	8.2	10.3	8.5	9.5	6.5	7.0	3.9	-----	-----	-----	-----	15.9
16	11.5	10.5	9.0	8.5	6.0	6.5	3.7	-----	-----	-----	-----	14.5
17	14.0	10.0	9.2	8.5	5.5	6.9	3.8	-----	-----	-----	-----	14.3
18	15.0	9.5	8.2	8.0	5.6	7.0	3.5	-----	-----	-----	-----	14.0
19	14.5	9.0	8.2	8.0	5.7	7.2	3.2	-----	-----	-----	-----	13.8
20	14.0	9.0	7.8	8.0	5.9	7.0	3.1	-----	-----	-----	-----	12.5
21	16.0	8.5	8.0	7.7	5.9	6.7	3.0	-----	-----	-----	-----	12.0
22	18.0	8.0	8.1	7.5	5.8	6.3	3.1	-----	-----	-----	-----	11.0
23	17.5	7.5	7.4	7.2	5.8	6.0	2.9	-----	-----	-----	-----	10.0
24	15.0	7.5	8.0	7.0	6.0	5.7	2.7	-----	-----	-----	-----	9.5
25	12.0	7.0	8.5	6.4	6.5	5.6	2.5	-----	-----	-----	-----	8.5
26	10.0	7.5	10.0	6.5	6.6	5.5	2.3	-----	-----	-----	-----	8.3
27	9.5	8.8	9.0	6.8	7.0	5.5	2.2	-----	-----	-----	-----	7.5
28	8.5	10.5	8.0	7.3	7.2	5.6	2.2	-----	-----	-----	-----	6.3
29	7.5	-----	7.9	8.0	7.5	5.4	2.1	-----	-----	-----	-----	6.2
30	7.0	-----	7.7	8.0	7.3	5.3	2.0	-----	-----	-----	-----	6.1
31	6.8	-----	7.5	-----	7.2	-----	2.0	-----	-----	-----	-----	6.0

DAILY RIVER STAGES.

Columbia River system—Willamette River, Portland, Oreg.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.2	6.6	9.8	8.1	8.3	15.6	23.3	12.2	4.5	1.4	2.0	4.0
2	8.0	6.8	9.6	7.5	8.8	16.8	23.4	11.6	4.4	1.0	2.0	5.5
3	8.0	7.0	8.7	6.9	9.7	17.8	23.5	11.2	4.2	0.8	2.8	7.0
4	7.7	6.6	7.6	6.1	10.8	18.6	23.4	10.8	4.2	0.7	2.7	8.4
5	6.9	6.8	6.6	5.5	11.9	19.1	23.4	10.4	4.6	1.6	2.9	8.6
6	6.3	6.1	6.0	4.9	12.5	19.8	23.2	10.0	4.7	1.6	2.9	9.9
7	6.5	5.6	5.2	4.8	12.4	20.1	23.0	9.8	4.8	1.8	2.7	10.0
8	7.1	4.8	5.5	5.0	11.1	20.7	23.0	9.6	5.0	2.5	2.2	10.2
9	7.9	4.4	5.8	5.7	11.8	21.0	23.0	9.4	5.2	2.4	7.8	12.2
10	8.1	4.0	6.0	6.1	11.1	21.0	22.9	9.2	5.1	2.9	9.2	11.4
11	7.8	3.9	5.9	6.5	11.0	21.2	22.8	8.8	5.0	2.3	9.0	10.6
12	6.5	3.7	5.6	7.0	11.3	21.3	22.6	8.6	4.8	1.5	8.3	11.0
13	5.8	3.6	5.6	9.4	11.5	21.4	22.4	8.3	4.5	0.9	7.2	12.7
14	5.1	4.0	5.3	11.5	11.4	21.4	22.2	7.9	4.2	0.3	8.0	13.8
15	4.8	4.1	5.0	12.4	11.1	21.4	21.9	7.7	3.9	0.0	12.3	14.2
16	4.3	4.2	5.0	12.9	10.9	21.6	21.6	7.1	3.6	0.0	17.7	14.0
17	5.6	4.2	4.8	12.8	10.8	21.8	21.4	6.7	3.4	0.4	19.0	12.9
18	8.6	4.0	4.6	9.5	10.6	22.2	21.0	6.5	3.4	0.5	19.8	11.3
19	10.8	4.1	4.6	9.8	10.4	22.6	20.5	6.4	3.4	1.0	20.2	10.3
20	12.0	4.1	4.8	8.8	10.0	23.0	20.1	6.2	3.2	1.2	19.5	9.9
21	13.4	4.6	5.0	7.8	9.7	23.4	19.6	6.1	3.4	1.4	17.0	9.0
22	13.8	3.6	5.3	7.1	9.5	23.6	19.1	6.2	3.2	1.5	14.8	8.3
23	14.0	3.2	5.7	6.8	9.6	23.8	18.5	6.0	3.2	1.5	12.1	7.7
24	14.1	2.8	6.1	6.7	9.9	23.8	18.0	6.0	3.0	1.6	11.0	7.1
25	13.8	3.5	7.8	6.9	10.4	23.8	17.4	5.8	2.8	1.4	9.8	6.6
26	12.0	5.9	8.9	7.1	11.0	23.6	16.7	5.6	2.6	1.8	8.7	6.3
27	9.8	7.5	9.5	7.4	11.9	23.4	16.0	5.2	2.4	2.2	7.0	6.3
28	8.8	8.8	9.6	7.7	12.6	23.2	15.2	5.2	2.2	1.5	5.2	6.1
29	8.1	9.4	9.6	8.2	13.3	23.2	14.6	4.7	2.0	1.0	4.8	5.8
30	7.3		8.9	8.1	13.9	23.2	13.8	4.5	1.8	0.0	3.8	6.0
31	6.7		8.5		14.8		13.0	4.5		0.5		6.5

1897.

1	6.8	4.5	4.1	10.5	16.5	22.8	14.9	8.1	5.9	3.0	1.5	8.6
2	8.0	6.0	4.2	9.7	16.4	22.8	14.8	7.8	5.3	2.2	0.6	8.5
3	8.7	6.2	4.3	8.9	16.1	22.7	14.8	7.5	4.9	1.2	0.4	7.5
4	7.9	7.0	4.5	8.3	15.9	22.3	14.7	7.1	4.4	1.0	0.5	6.4
5	7.0	8.0	4.7	7.6	15.8	21.9	14.7	6.8	4.3	1.1	1.0	6.7
6	6.8	10.0	4.6	7.7	16.0	21.3	14.8	6.5	4.4	1.4	1.7	8.0
7	6.6	10.6	5.0	7.7	16.7	20.8	14.9	6.4	4.5	1.9	1.9	11.1
8	6.1	10.6	4.6	8.0	17.5	20.3	14.8	6.3	4.5	2.0	2.0	13.4
9	5.7	10.1	4.8	8.1	18.5	19.8	14.7	6.3	4.6	2.4	2.3	13.8
10	5.2	10.5	4.6	8.4	19.1	19.5	14.5	6.4	4.6	2.2	4.0	13.8
11	4.6	8.6	4.7	8.7	19.1	19.1	14.3	6.5	4.5	2.2	5.5	14.0
12	4.4	10.6	3.9	9.2	19.0	18.8	14.0	6.4	4.2	2.4	6.1	14.0
13	4.2	11.3	3.5	9.5	18.7	18.4	13.9	6.3	4.1	2.6	6.4	14.8
14	3.3	11.1	3.1	10.0	18.5	17.9	13.5	6.2	3.8	2.8	6.1	15.1
15	3.0	11.3	2.9	10.4	18.8	17.4	13.3	6.0	3.5	2.1	5.8	15.1
16	3.0	13.0	3.7	11.4	19.4	16.9	12.9	6.0	3.1	1.5	5.4	14.4
17	3.1	13.5	4.7	12.4	20.0	16.5	12.4	5.8	2.4	1.3	5.5	13.2
18	3.5	13.3	4.8	13.5	20.9	16.1	12.0	5.5	1.9	0.9	7.0	11.5
19	3.8	12.4	4.2	14.8	21.8	15.0	11.7	5.1	1.8	1.0	11.5	9.6
20	4.8	10.5	5.6	16.0	22.4	15.6	11.4	5.0	1.6	0.5	12.9	8.1
21	6.3	9.0	5.6	17.2	22.7	15.2	11.0	4.7	1.7	0.4	12.6	7.0
22	6.6	7.5	5.2	18.0	23.1	15.1	10.9	4.6	1.8	1.7	12.3	6.3
23	6.5	6.5	5.4	18.4	23.4	15.1	10.5	4.7	1.9	2.1	11.4	6.0
24	6.3	5.6	6.2	18.1	23.7	15.1	10.0	4.6	2.2	2.4	10.5	6.0
25	6.5	4.7	8.4	17.6	23.7	15.1	9.8	4.9	2.4	2.8	9.5	6.4
26	6.0	3.6	10.2	16.8	23.6	15.0	9.6	5.1	2.8	2.9	8.4	7.0
27	5.6	3.5	10.9	16.0	23.6	15.0	9.3	5.4	3.0	3.0	7.5	8.3
28	5.6	3.9	11.6	15.8	23.5	15.0	9.0	5.5	3.0	3.0	6.8	9.5
29	3.9		11.8	15.9	23.4	15.0	8.9	5.5	3.2	3.2	6.1	11.0
30	4.5		11.6	16.4	23.0	15.0	8.6	5.7	3.5	3.0	7.5	10.7
31	5.0		11.0		22.9		8.4	5.9		2.6		9.6

DAILY RIVER STAGES.

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Columbia River system—Willamette River, Portland, Oreg.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.5	2.5	6.4	2.6	11.4	18.8	18.0	10.0	5.6	3.6	2.6	7.6
2	7.6	2.4	6.0	2.6	11.3	19.3	17.8	9.5	5.5	3.8	2.7	8.2
3	7.0	2.6	5.9	2.5	11.3	19.5	17.3	9.3	5.7	3.9	3.4	8.0
4	6.5	3.4	6.0	3.0	11.3	19.6	17.0	9.2	5.6	3.7	3.1	7.7
5	6.0	4.3	6.0	3.5	11.4	19.4	16.6	8.8	5.2	3.1	2.5	7.6
6	5.8	6.1	6.0	4.4	11.5	19.1	16.1	8.5	4.7	2.4	2.5	5.1
7	5.6	8.5	6.3	5.0	11.6	18.9	15.7	8.0	4.1	2.6	1.6	3.6
8	5.8	9.9	6.3	5.3	11.8	18.7	15.3	7.5	3.8	2.3	1.2	2.8
9	5.9	9.9	6.4	6.0	11.9	18.5	14.9	7.4	3.5	1.4	1.2	2.1
10	5.5	9.3	6.5	6.1	11.9	18.5	14.4	7.3	3.2	1.3	1.2	2.1
11	5.4	8.8	6.5	6.1	11.8	18.7	14.0	7.0	3.0	1.4	1.3	2.0
12	5.3	8.5	6.6	5.8	11.8	18.9	13.5	6.9	3.0	1.6	1.5	2.3
13	5.3	8.4	6.4	5.5	11.9	19.3	13.2	6.9	3.3	1.8	1.4	2.1
14	4.9	8.5	6.5	5.4	12.2	19.5	12.9	6.9	3.4	2.7	1.6	2.4
15	4.8	8.9	6.7	5.7	12.8	19.9	12.6	7.0	3.5	2.6	2.4	2.7
16	4.4	9.5	5.0	6.2	13.3	20.1	12.4	7.0	3.4	2.5	2.6	3.5
17	4.5	10.2	4.5	6.8	13.4	20.4	12.3	7.1	3.5	2.6	4.3	3.7
18	4.6	11.0	4.5	7.5	13.9	20.6	12.1	7.2	3.4	3.1	4.6	3.9
19	5.8	11.3	4.4	8.0	14.6	20.7	12.0	7.2	3.7	2.8	6.0	4.4
20	6.9	11.0	4.5	8.4	15.3	20.6	11.9	7.0	3.7	2.9	7.0	4.4
21	7.3	10.7	5.0	8.5	15.8	20.7	11.9	6.6	4.0	2.0	6.8	4.3
22	7.3	10.4	4.5	9.0	16.1	20.7	11.8	6.6	3.3	1.6	6.1	4.4
23	7.1	10.0	4.5	9.5	16.2	20.6	11.5	6.4	2.8	1.2	5.5	4.0
24	6.4	9.5	4.9	9.7	16.1	20.3	11.5	6.4	2.4	0.8	5.3	3.3
25	6.9	8.9	5.0	9.8	16.0	20.0	11.2	5.7	2.2	0.7	5.7	2.9
26	5.0	8.0	4.7	10.0	15.8	19.8	11.0	5.5	2.6	1.2	5.4	3.0
27	4.8	7.4	4.6	10.2	15.8	19.8	10.8	5.5	2.5	1.5	5.0	3.5
28	4.4	6.7	4.2	10.4	15.7	19.2	10.4	5.6	2.7	2.0	5.5	4.5
29	3.7	.....	3.5	10.9	16.1	18.9	10.2	5.6	3.4	2.1	5.8	4.8
30	3.4	.....	3.0	11.3	16.9	18.5	10.0	5.8	3.4	2.2	6.5	4.8
31	2.6	.....	2.5	.....	18.1	.....	10.0	5.9	.....	2.4	.....	4.4

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.3	6.6	10.5	5.9	10.0	17.1	23.3	15.0	7.6	4.1	3.2	14.0
2	5.8	5.8	12.0	5.8	9.5	17.4	23.3	14.5	7.4	4.3	3.2	15.0
3	5.5	5.3	12.8	5.4	9.0	17.7	23.4	14.0	6.8	4.3	3.7	14.0
4	5.1	4.5	13.2	5.0	8.6	17.9	23.0	13.6	6.8	4.2	3.9	13.1
5	4.3	3.4	12.5	5.3	8.4	18.4	22.9	13.1	6.8	4.4	3.8	12.0
6	3.5	2.4	10.3	5.5	8.3	19.1	22.7	12.8	6.7	4.5	3.9	11.1
7	2.8	2.5	8.1	5.7	8.1	19.6	22.5	12.3	6.6	4.4	4.3	10.1
8	2.8	3.7	7.1	5.9	8.3	19.9	22.3	11.9	6.5	4.3	4.3	9.4
9	3.1	6.9	7.0	6.3	8.6	19.9	22.1	11.5	6.6	4.0	4.0	8.9
10	4.7	10.5	6.8	7.1	9.5	19.6	21.9	11.2	6.2	4.0	3.9	8.6
11	6.5	11.6	6.8	7.8	10.5	19.5	21.8	10.9	6.6	3.8	3.7	9.3
12	7.2	11.7	6.9	10.1	11.8	19.8	21.6	10.5	5.5	3.2	3.9	11.0
13	7.3	10.9	7.0	11.3	12.5	20.4	21.4	10.1	5.2	2.7	3.7	12.0
14	7.5	9.4	7.0	11.4	12.9	21.1	21.3	9.8	5.0	2.3	3.9	12.8
15	7.5	8.8	6.8	11.3	12.9	21.7	21.0	9.5	5.0	2.4	4.2	12.8
16	8.3	8.3	6.5	10.8	12.5	21.7	20.8	9.4	5.0	2.8	4.9	11.1
17	9.6	7.8	6.5	10.0	12.1	21.6	20.5	9.2	5.3	3.5	5.0	10.1
18	10.6	7.4	5.8	9.5	11.6	21.5	20.2	8.9	5.5	4.0	5.4	9.3
19	10.7	6.8	5.1	9.5	11.4	21.8	20.0	9.0	5.8	7.1	6.5	8.6
20	10.6	6.5	4.6	9.1	11.4	22.5	19.7	9.0	5.9	7.8	7.0	7.8
21	12.6	6.4	4.5	9.0	11.4	23.3	19.4	8.9	5.8	7.8	7.8	7.6
22	14.1	6.0	4.1	8.7	11.5	24.0	19.1	9.0	5.5	7.5	7.8	7.9
23	13.9	6.0	4.9	8.7	11.5	24.2	18.8	9.1	5.6	6.5	7.5	8.0
24	13.0	5.8	4.8	8.7	11.6	24.0	18.5	8.9	5.4	5.7	6.9	7.6
25	11.6	5.8	4.9	8.5	12.2	23.7	18.2	8.7	5.0	4.9	6.0	6.9
26	9.9	5.8	5.2	8.5	12.9	23.3	17.8	8.6	4.5	4.5	5.8	6.7
27	8.6	6.6	5.8	9.2	14.0	23.2	17.4	8.0	4.0	4.3	7.0	6.0
28	7.6	7.8	5.7	9.6	15.2	23.3	17.0	8.0	3.8	3.4	9.8	5.8
29	6.9	.....	5.9	9.9	16.0	23.5	16.5	7.8	3.9	3.3	11.5	5.9
30	6.5	.....	6.0	10.1	16.4	23.4	15.9	7.4	3.9	3.2	12.5	6.0
31	6.7	.....	6.2	.....	16.8	.....	15.5	7.3	.....	3.2	.....	6.2

DAILY RIVER STAGES.

Edisto River system—Edisto River, Edisto, S. C.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.5	4.1	4.5	3.5	2.1	1.9	2.2	3.3	2.2	1.7	1.4	2.1
2	3.5	4.2	4.7	3.5	2.1	2.0	1.9	3.0	2.2	2.0	1.5	2.5
3	3.6	4.1	4.8	3.5	2.2	1.8	2.2	2.6	2.3	2.0	1.5	2.9
4	3.6	4.0	4.7	3.6	2.2	2.0	2.0	2.5	2.3	2.0	1.5	3.1
5	3.7	3.9	4.6	3.7	2.2	2.2	1.9	2.3	1.8	1.9	1.6	3.6
6	3.8	4.5	4.6	3.8	2.2	2.3	1.7	2.2	1.5	1.6	1.7	4.0
7	3.7	4.8	4.6	3.8	2.3	2.5	1.9	2.2	1.3	1.5	1.7	4.3
8	3.7	5.2	4.5	3.7	2.3	2.7	2.3	2.3	1.2	1.4	1.8	4.7
9	3.7	5.7	4.6	3.6	2.5	3.2	2.8	2.3	1.1	1.4	1.9	4.9
10	3.8	6.1	4.6	3.5	2.5	3.6	3.4	2.2	1.0	1.4	1.9	4.9
11	3.8	6.5	4.6	3.5	2.5	3.6	4.0	2.2	0.9	1.2	2.0	4.8
12	3.7	6.6	4.6	3.4	2.5	3.7	4.8	2.2	0.9	1.1	2.1	4.7
13	3.6	6.5	4.5	3.4	2.3	3.6	5.1	2.2	0.8	1.1	2.1	4.6
14	3.5	6.3	4.5	3.2	2.0	3.4	5.2	1.9	0.8	1.1	2.2	4.5
15	3.4	6.0	4.4	3.0	1.6	2.8	5.0	2.2	0.7	1.0	2.2	4.4
16	3.4	5.8	4.4	2.8	1.4	2.1	4.9	2.5	0.7	1.1	2.1	4.3
17	3.5	5.7	4.5	2.7	1.2	1.8	4.9	2.9	0.8	1.1	2.0	4.1
18	3.6	5.5	4.4	2.7	1.2	1.7	4.8	2.9	0.8	1.1	1.8	4.0
19	3.8	5.3	4.4	2.6	1.3	1.5	4.9	3.1	0.8	1.1	1.7	3.9
20	3.9	5.1	4.4	2.5	1.6	1.5	5.2	3.2	0.8	1.1	1.7	3.7
21	3.9	5.0	4.5	2.4	1.8	2.0	5.5	3.3	0.8	1.0	1.7	3.6
22	4.0	4.9	4.4	2.3	1.7	2.5	5.7	3.0	0.7	1.0	1.7	3.5
23	4.1	4.8	4.3	2.2	1.7	3.6	5.4	2.6	0.7	1.0	1.7	3.4
24	4.1	4.7	4.3	2.1	1.7	4.6	5.1	2.1	0.7	1.1	1.7	3.4
25	4.1	4.7	4.2	2.1	1.8	4.6	5.0	2.0	0.7	1.2	1.7	3.3
26	4.2	4.7	4.1	2.1	1.8	4.5	4.8	1.6	0.8	1.2	1.6	3.2
27	4.3	4.6	4.0	2.2	1.9	4.2	4.6	1.7	0.8	1.3	1.6	3.1
28	4.4	4.5	3.9	2.1	1.9	3.7	4.3	2.2	0.8	1.3	1.7	3.0
29	4.2	4.5	3.8	2.1	1.9	3.5	3.9	2.7	0.9	1.3	1.8	2.9
30	4.1	-----	3.7	2.1	2.0	2.9	3.7	2.7	1.4	1.3	2.0	2.8
31	4.1	-----	3.6	-----	2.0	-----	3.5	2.4	-----	1.4	-----	2.8

1897.

1	2.8	3.9	5.5	5.0	3.4	1.5	2.7	4.3	5.0	4.8	3.5	2.5
2	2.7	3.8	5.5	5.0	3.4	1.4	2.6	3.9	4.8	4.8	3.5	2.5
3	2.7	3.8	5.5	5.1	3.4	1.4	2.4	3.4	4.6	4.7	3.3	2.7
4	2.7	3.8	5.4	5.1	3.4	1.4	2.2	2.9	4.5	4.4	3.2	2.8
5	2.7	3.7	5.4	5.1	3.5	1.4	2.0	2.5	4.3	4.1	3.1	2.9
6	2.7	4.3	5.4	5.2	3.9	1.5	2.0	2.2	4.1	3.8	3.1	3.0
7	2.7	4.8	5.4	5.1	4.1	1.5	1.9	2.2	3.8	3.6	3.1	2.8
8	2.6	5.1	5.2	5.2	4.2	1.9	1.8	2.8	3.4	3.2	3.1	2.7
9	2.6	5.2	5.1	5.2	4.0	2.3	1.7	3.8	3.2	2.9	3.1	2.6
10	2.5	5.3	5.0	5.2	3.8	3.9	1.7	4.3	3.0	2.8	3.1	2.6
11	2.5	5.5	4.9	5.3	3.6	4.5	1.9	4.5	2.9	2.7	3.1	2.7
12	2.4	5.8	4.8	5.2	3.4	4.4	2.2	4.7	2.8	2.6	3.0	2.5
13	2.4	5.8	5.2	5.1	3.4	4.4	2.4	4.8	2.7	2.6	3.0	2.4
14	2.5	5.9	5.5	5.0	3.3	4.0	2.6	4.7	2.6	2.7	3.2	2.5
15	2.6	5.9	5.7	5.0	3.4	3.9	2.6	4.6	2.5	2.9	2.7	2.4
16	3.0	5.8	5.6	4.9	3.4	3.9	2.7	4.6	2.4	3.2	2.7	2.3
17	3.3	5.7	5.6	4.8	3.4	3.8	2.9	4.5	2.3	3.5	2.7	2.4
18	3.6	5.6	5.5	4.7	3.4	3.6	3.3	4.9	2.2	3.5	2.6	2.4
19	3.8	5.5	5.4	4.6	3.3	3.5	3.4	5.1	2.2	3.5	2.6	2.5
20	4.1	5.4	5.5	4.4	3.3	3.4	3.2	5.1	2.2	3.5	2.6	2.5
21	4.5	5.3	5.4	4.3	3.3	3.2	2.9	5.1	2.1	3.6	2.6	2.6
22	4.7	5.2	5.3	4.1	3.2	2.8	2.9	5.2	2.5	3.7	2.6	2.6
23	4.5	5.2	5.4	4.0	3.0	2.5	3.2	5.4	3.3	3.8	2.5	2.7
24	4.5	5.1	5.4	3.8	2.8	2.5	3.6	6.0	3.8	3.8	2.5	2.7
25	4.5	5.2	5.3	3.7	2.6	2.6	4.0	6.4	4.6	3.8	2.5	2.8
26	4.5	5.3	5.3	3.6	2.4	2.7	4.4	6.6	5.0	3.8	2.5	2.8
27	4.5	5.4	5.2	3.5	2.2	2.7	4.6	6.5	5.0	3.7	2.4	3.0
28	4.3	5.5	5.1	3.4	2.0	2.7	4.9	6.2	5.0	3.7	2.4	3.6
29	4.1	-----	5.0	3.3	1.8	3.0	5.1	5.8	4.9	3.6	2.5	3.6
30	4.0	-----	4.9	3.3	1.7	2.9	5.0	5.8	4.8	3.6	2.5	3.7
31	4.0	-----	4.9	-----	1.5	-----	4.7	5.2	-----	3.5	-----	3.8

DAILY RIVER STAGES.

123

Edisto River system—Edisto River, Edisto, S. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.8	3.5	2.5	2.6	4.6	1.3	1.3	3.0	5.1	2.7	4.8	5.0
2	3.7	3.5	2.4	2.7	4.4	1.1	0.8	2.9	5.3	2.8	4.2	4.9
3	3.6	3.4	2.4	2.7	4.7	0.9	0.4	2.8	5.5	3.6	4.0	4.8
4	3.5	3.4	2.3	2.7	4.5	0.8	0.4	2.6	5.5	4.1	3.6	4.9
5	3.4	3.3	2.2	3.0	4.4	0.8	0.6	2.5	5.3	4.8	3.0	5.0
6	3.3	3.2	3.1	3.6	4.2	0.8	0.7	2.7	5.4	5.1	2.8	5.1
7	3.3	3.2	3.3	4.0	4.1	0.7	0.9	2.6	5.4	5.1	2.7	5.1
8	3.3	3.2	3.3	4.3	3.8	0.7	1.8	2.6	5.3	5.2	2.6	5.1
9	3.3	3.1	3.4	4.5	3.5	0.7	2.4	2.4	5.4	5.2	2.5	5.1
10	3.2	2.9	3.4	4.6	3.3	0.6	2.6	2.2	5.4	5.1	2.4	5.1
11	3.0	2.8	3.3	4.6	3.2	0.6	3.0	2.2	5.6	5.1	2.5	5.0
12	3.1	2.7	3.2	4.6	2.9	0.5	3.1	2.4	5.9	5.0	2.5	5.0
13	3.1	2.6	3.3	4.4	2.6	0.4	3.8	2.5	5.9	4.8	2.4	4.9
14	3.0	2.6	3.3	4.4	2.4	0.4	4.5	2.6	5.7	4.6	2.2	4.9
15	3.0	2.4	3.1	4.3	2.1	0.4	4.8	2.8	5.4	4.4	2.8	4.8
16	3.0	2.3	3.1	4.3	2.1	0.4	4.9	3.0	5.1	4.1	3.4	4.5
17	3.0	2.4	3.6	4.1	1.9	0.7	4.8	3.1	4.8	3.8	3.6	4.3
18	3.0	2.4	3.8	4.0	1.9	1.6	4.6	3.3	4.8	3.6	4.2	4.2
19	3.0	2.4	3.7	3.9	1.6	2.0	4.5	3.4	4.3	3.2	5.0	4.3
20	2.9	2.4	3.5	3.6	1.5	2.6	4.3	3.5	4.1	3.1	5.2	4.2
21	2.9	2.5	3.6	3.5	1.5	2.8	3.9	3.6	4.0	3.1	5.4	4.3
22	2.9	2.5	3.6	3.3	1.4	2.7	3.5	3.8	3.8	3.0	5.5	4.5
23	2.9	2.4	3.4	3.1	1.4	2.4	3.3	3.7	3.6	2.8	5.4	4.6
24	2.9	2.4	3.2	3.2	1.3	2.7	3.2	3.6	3.3	2.8	5.3	4.8
25	3.0	2.5	3.2	3.4	1.4	3.0	3.0	3.7	3.2	2.8	5.3	4.6
26	3.0	2.5	3.2	3.4	1.4	3.0	3.0	3.6	3.1	2.8	5.3	4.6
27	3.1	2.5	3.0	3.9	1.5	3.0	3.3	3.5	2.9	2.8	5.2	4.7
28	3.1	2.5	2.9	4.5	1.6	2.6	3.1	3.7	2.7	2.8	5.1	4.5
29	3.3	-----	2.8	4.8	1.6	2.3	3.0	4.5	2.7	3.0	5.1	4.4
30	3.5	-----	2.6	4.8	1.6	1.9	3.0	4.8	2.7	4.8	5.1	4.4
31	3.6	-----	2.5	-----	1.5	-----	3.0	4.9	-----	4.8	-----	4.4

1899.

1	4.3	5.0	5.6	5.0	4.0	2.9	2.8	2.8	4.6	1.4	3.9	5.3
2	4.2	5.0	5.6	5.0	4.0	3.0	2.8	3.0	4.7	1.3	3.9	5.1
3	4.1	5.1	5.5	5.0	4.0	3.0	2.7	3.2	4.6	1.3	4.5	5.1
4	4.0	5.2	5.4	5.0	3.7	2.9	2.5	3.3	4.5	1.3	5.0	5.0
5	3.9	5.3	5.5	5.0	3.6	2.9	2.4	3.3	4.4	1.2	5.0	5.0
6	3.9	5.4	5.6	5.0	3.6	2.9	2.8	3.3	4.2	1.6	5.3	5.0
7	3.8	5.6	5.7	5.1	3.5	2.9	2.8	3.2	4.1	2.0	5.3	4.9
8	3.8	5.6	5.6	5.2	3.5	2.8	2.8	2.8	4.0	3.2	5.1	4.8
9	3.7	5.8	5.5	5.2	3.4	2.8	3.2	2.7	3.9	3.6	5.1	4.6
10	3.7	5.8	5.5	5.3	3.2	2.9	3.5	2.2	3.6	3.7	4.9	4.7
11	3.9	5.9	5.4	5.4	3.2	3.0	3.4	2.4	3.3	5.0	4.8	4.4
12	4.0	6.0	5.3	5.3	3.1	3.2	3.1	2.6	3.1	4.7	4.7	4.3
13	4.2	6.5	5.1	5.3	3.1	3.3	2.8	2.8	3.0	4.7	4.6	4.3
14	4.4	6.3	5.0	5.1	3.1	3.5	2.8	3.0	2.9	4.7	4.2	4.3
15	4.6	6.3	5.1	5.1	3.1	3.2	2.8	2.9	2.6	4.3	4.1	4.4
16	4.8	6.2	5.0	5.1	3.0	3.0	1.8	2.9	2.4	4.3	3.9	4.4
17	5.1	6.1	5.1	4.8	3.0	3.0	1.4	3.0	2.2	4.0	3.7	4.4
18	5.4	6.0	4.8	4.7	2.9	3.0	1.3	3.1	2.1	3.9	3.6	4.4
19	5.5	6.0	4.7	4.7	2.8	3.1	1.2	3.1	2.1	3.8	3.5	4.4
20	5.5	6.0	5.1	4.6	2.7	3.2	1.2	3.1	2.1	3.4	3.4	4.4
21	5.5	6.0	5.0	4.6	2.6	3.7	1.2	3.0	2.1	3.1	3.4	4.3
22	5.4	5.9	5.0	4.6	2.5	4.6	1.2	2.7	2.0	2.9	3.4	4.2
23	5.3	5.9	5.0	4.6	2.5	4.6	1.0	2.5	1.9	2.6	3.3	4.1
24	5.1	5.7	5.0	4.7	2.5	4.2	1.1	2.0	1.8	2.4	3.3	4.1
25	5.1	5.7	5.0	4.3	2.5	4.0	1.3	1.6	1.7	2.3	3.3	4.1
26	5.0	5.7	5.0	4.2	2.5	3.7	1.6	1.5	1.7	2.2	3.8	4.1
27	4.9	5.5	5.0	4.1	2.6	3.5	2.0	1.8	1.6	2.2	4.1	4.1
28	4.9	5.6	5.0	4.1	2.7	3.3	2.3	2.0	1.6	2.1	4.5	4.1
29	4.8	-----	5.1	4.1	2.7	3.3	2.7	2.4	1.5	2.1	4.7	4.2
30	4.8	-----	5.1	4.0	2.8	3.0	2.7	3.1	1.4	2.1	5.0	4.2
31	4.9	-----	5.0	-----	2.9	-----	2.7	4.1	-----	2.1	-----	4.2

DAILY RIVER STAGES.

*James River system—James River, Buchanan, Va.*1896.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-----	1.3	1.3	7.8	-0.6	0.6	0.6	1.0	0.1	5.3	-0.2	4.4
2	-----	1.3	1.3	7.6	-0.6	0.6	0.4	1.5	0.0	2.6	-0.2	3.2
3	-----	3.2	1.3	5.0	1.3	0.5	0.3	1.3	-0.1	1.6	-0.2	2.4
4	-----	5.6	1.3	3.8	1.6	0.5	0.3	1.0	-0.1	1.2	-0.2	1.8
5	-----	3.9	1.3	2.9	1.0	0.4	0.3	0.9	-0.2	0.8	4.1	1.6
6	-----	3.8	1.3	2.4	0.7	0.1	0.3	0.5	-0.2	0.6	7.2	1.5
7	-----	6.0	1.3	2.2	0.7	0.1	0.8	0.4	-0.2	0.5	3.2	1.4
8	-----	4.4	1.3	1.8	0.6	0.9	1.0	0.4	-0.2	0.5	2.4	1.2
9	-----	3.6	1.3	1.6	0.5	1.3	10.2	0.2	-0.3	0.4	1.7	1.2
10	-----	3.5	1.3	1.4	0.3	1.1	6.8	0.9	-0.3	0.3	1.4	1.1
11	-----	3.0	1.3	1.3	0.3	1.0	3.6	0.6	-0.3	0.3	1.2	1.0
12	-----	2.3	1.3	0.5	0.2	0.7	2.4	0.2	-0.3	0.2	0.9	0.9
13	-----	2.0	1.6	0.4	0.2	0.4	2.4	0.1	-0.3	0.1	0.8	0.9
14	-----	3.9	1.6	0.2	0.1	0.4	1.9	0.1	-0.3	0.1	0.8	0.8
15	-----	4.3	1.6	0.1	0.1	0.3	1.4	0.4	-0.3	0.1	0.8	0.7
16	-----	3.3	1.6	0.1	0.1	0.3	1.1	0.6	-0.3	0.1	0.7	0.6
17	-----	2.9	6.0	0.1	0.0	0.3	1.0	0.2	-0.3	0.1	0.7	0.5
18	-----	2.3	5.4	-0.4	0.0	0.3	0.9	0.2	-0.3	0.1	0.6	0.5
19	-----	2.0	4.5	-0.2	0.0	0.4	0.8	0.1	-0.3	0.0	0.6	0.5
20	-----	2.0	6.2	0.0	0.0	0.7	0.6	0.1	-0.3	0.0	0.5	0.5
21	-----	2.0	5.0	0.1	0.8	0.6	0.4	-0.1	-0.3	0.0	0.5	0.4
22	-----	2.0	3.8	0.1	1.2	0.4	0.4	0.5	-0.3	-0.1	0.4	0.4
23	-----	2.0	3.2	0.1	0.8	0.3	0.8	0.4	-0.3	-0.1	0.4	0.4
24	-----	1.6	3.8	0.1	0.9	0.2	0.6	0.2	-0.3	-0.2	0.4	0.4
25	4.8	1.4	3.9	0.1	0.9	0.2	0.4	0.2	-0.3	-0.2	0.4	0.4
26	3.4	1.3	3.6	-0.3	0.8	1.8	0.3	0.4	-0.3	-0.2	0.4	0.3
27	2.6	1.3	3.4	-0.6	0.6	2.0	0.2	0.2	-0.3	-0.2	0.4	0.3
28	2.0	1.3	3.4	-0.6	0.8	1.4	0.2	0.2	-0.3	-0.2	0.3	0.2
29	1.6	1.3	3.6	-0.6	0.7	1.2	0.2	0.2	-0.3	-0.2	1.3	0.2
30	1.5	-----	9.4	-0.6	0.6	1.8	0.7	0.2	12.3	-0.2	5.4	0.2
31	1.3	-----	8.8	-----	0.6	-----	0.7	0.1	-----	-----	-----	0.2

1897.¹

1	2.1	2.7	4.2	3.3	2.6	2.5	2.1	2.2	1.8	1.3	1.6	1.7
2	2.1	2.8	4.1	3.3	6.4	2.5	2.2	2.1	1.8	1.3	1.8	1.8
3	2.1	2.9	3.8	3.0	7.8	2.5	3.0	2.0	1.7	1.3	1.8	1.9
4	2.1	2.9	3.7	3.0	5.8	3.0	2.7	2.0	1.7	1.3	1.8	2.1
5	2.1	2.9	3.6	3.2	5.2	2.6	2.4	2.4	1.7	1.3	1.7	2.2
6	2.1	8.0	3.5	4.2	5.2	2.5	2.3	2.1	1.7	1.3	1.7	2.2
7	2.1	12.2	3.5	4.0	4.8	2.5	2.3	2.0	1.7	1.3	1.6	2.2
8	2.1	8.8	3.8	3.8	4.6	2.5	2.5	2.0	1.6	1.3	1.6	2.2
9	2.1	7.2	3.7	3.6	4.2	2.5	2.4	2.0	1.6	1.3	1.6	2.2
10	2.1	6.8	3.7	4.1	4.0	2.4	2.3	1.9	1.6	1.3	1.6	2.2
11	2.1	6.1	4.4	4.2	3.8	2.4	2.2	1.9	1.6	1.3	1.6	2.2
12	2.1	5.8	4.9	4.0	3.4	2.4	2.2	1.9	1.6	1.8	1.5	2.2
13	2.1	8.2	6.2	3.7	6.2	2.3	2.2	1.9	1.6	1.8	1.5	2.2
14	2.1	6.5	5.8	3.6	10.4	2.3	2.2	1.9	1.6	1.7	1.4	2.2
15	2.1	6.2	7.9	3.6	7.3	2.4	2.2	1.9	1.6	1.7	1.4	2.6
16	2.1	6.2	6.4	3.5	5.9	2.4	2.2	1.8	1.6	1.7	1.3	2.8
17	2.1	6.5	5.6	3.4	5.0	2.4	2.2	1.8	1.5	1.7	1.3	2.9
18	2.1	5.6	5.1	3.2	4.6	2.4	2.1	1.8	1.5	1.6	1.3	2.7
19	2.1	5.3	6.0	3.1	4.1	2.4	2.2	1.8	1.5	1.6	1.3	2.7
20	2.1	5.3	6.8	3.0	3.8	3.1	2.2	1.8	1.5	1.5	1.3	2.7
21	2.3	6.0	6.4	3.0	3.6	2.5	2.3	1.8	1.5	1.5	1.3	2.7
22	2.3	11.5	5.6	2.9	3.4	2.5	3.4	1.8	1.5	1.5	1.3	2.7
23	2.3	14.0	5.0	2.8	3.2	2.5	3.3	1.8	1.6	1.7	1.3	2.6
24	2.7	11.6	4.6	2.8	3.2	2.4	3.0	2.2	1.9	1.7	1.3	2.8
25	2.9	7.5	4.4	2.7	3.2	2.3	3.0	2.1	1.6	1.7	1.3	2.9
26	2.8	6.1	4.2	2.7	3.1	2.2	2.8	2.0	1.5	1.7	1.3	2.9
27	2.6	5.4	4.0	2.7	3.0	2.4	2.6	2.0	1.5	1.7	1.3	2.9
28	2.9	4.8	3.8	2.6	2.9	2.3	2.5	1.9	1.5	1.6	1.3	2.8
29	2.9	-----	3.6	2.6	2.8	2.2	2.4	1.9	1.4	1.6	1.3	2.7
30	2.9	-----	3.5	2.6	2.7	2.1	2.4	1.9	1.4	1.6	1.4	2.6
31	2.7	-----	3.4	-----	2.6	-----	2.3	1.8	-----	1.6	1.5	2.6

¹ U. S. Geological Survey records.

DAILY RIVER STAGES.

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*James River system—James River, Buchanan, Va.—Continued.*1898.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.5	3.0	2.5	7.0	3.0	3.0	1.9	2.4	2.4	2.2	3.6	3.2
2	2.6	3.0	2.5	5.7	2.9	2.8	1.9	2.2	2.3	2.1	3.6	3.1
3	2.7	2.9	2.6	4.8	2.8	2.7	1.9	2.2	2.2	2.1	3.2	3.0
4	2.6	2.9	2.6	4.4	2.7	2.6	1.9	3.6	2.5	2.6	3.0	3.3
5	2.5	2.8	2.5	4.2	2.6	2.6	1.8	7.3	2.2	2.8	3.0	5.4
6	2.5	2.8	2.5	4.4	4.4	2.6	1.8	5.6	2.2	4.4	3.0	4.4
7	2.4	2.8	2.5	4.2	11.1	2.5	1.9	4.2	2.2	4.0	2.9	4.4
8	2.4	2.8	2.6	3.9	8.8	2.4	1.9	4.0	2.1	3.2	2.9	3.7
9	2.4	2.7	2.6	3.8	7.0	2.4	1.9	4.5	2.1	3.0	2.8	3.7
10	2.4	2.7	2.6	3.8	5.7	2.3	1.9	8.3	2.0	2.7	2.7	3.6
11	3.5	2.6	2.6	4.7	5.0	2.3	1.9	11.6	2.0	2.5	2.7	3.5
12	4.0	2.4	2.6	6.6	4.4	2.3	1.9	6.9	2.0	2.6	2.7	3.4
13	3.6	2.4	2.6	5.5	4.0	2.3	1.8	5.0	1.9	2.5	2.7	3.3
14	3.2	2.4	2.6	5.4	3.8	2.3	1.8	6.0	1.9	2.5	2.9	3.2
15	3.2	2.4	2.6	7.2	3.6	2.3	1.8	4.7	1.9	2.4	2.9	3.1
16	4.2	2.4	2.6	6.4	3.5	2.3	1.8	4.1	1.8	2.4	2.9	3.0
17	4.8	2.3	2.6	5.5	3.5	2.4	1.8	3.6	1.8	2.4	2.9	3.0
18	4.3	2.3	3.6	4.9	3.3	2.4	2.4	3.4	1.8	2.7	2.9	2.9
19	3.7	2.3	4.4	4.4	3.3	2.6	2.5	3.4	1.8	6.4	4.2	2.9
20	3.6	2.3	4.2	4.2	3.5	2.7	2.2	3.0	1.8	4.8	6.3	2.9
21	3.8	2.3	3.8	3.8	3.3	2.6	2.1	2.8	1.8	6.8	5.2	2.8
22	3.8	2.8	3.4	3.6	3.1	2.5	2.3	2.7	2.2	14.1	4.4	2.8
23	3.6	3.3	3.2	3.4	5.0	2.4	2.4	2.6	5.5	8.6	4.2	4.3
24	3.5	3.0	3.1	3.3	5.9	2.4	2.3	2.4	3.7	6.0	4.2	5.6
25	3.7	2.9	4.0	3.3	5.0	2.3	2.5	2.6	3.0	5.0	4.0	4.7
26	3.8	2.8	5.2	3.3	4.7	2.3	2.3	2.5	2.5	4.6	3.8	4.2
27	4.4	2.7	4.4	3.3	4.2	2.2	2.2	2.5	2.4	4.1	3.6	3.8
28	4.1	2.6	4.0	3.2	3.8	2.0	3.4	2.5	2.3	4.0	3.4	3.6
29	3.7	-----	4.3	3.1	3.4	2.0	3.2	2.5	2.3	3.6	3.3	3.5
30	3.6	-----	8.5	3.0	3.3	2.0	2.8	2.5	2.2	3.7	3.2	3.5
31	3.2	-----	8.2	-----	3.2	-----	2.5	2.4	-----	3.9	-----	3.4

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1	3.4	3.1	7.4	4.8	3.8	3.6	3.0	1.8	1.9	1.9	1.8	1.8
2	3.6	3.0	6.6	4.4	3.8	3.7	2.1	1.8	1.9	1.9	1.9	1.8
3	3.4	3.0	6.4	4.3	3.8	3.6	2.1	1.8	1.9	1.9	2.1	1.8
4	3.4	3.4	11.2	4.2	3.8	3.6	2.0	1.8	2.0	1.9	2.3	1.8
5	4.0	5.9	19.0	4.1	3.7	3.6	2.0	1.8	2.1	1.9	2.2	1.8
6	6.0	6.8	13.6	4.1	3.7	3.5	2.0	1.8	2.0	1.8	2.2	1.8
7	10.2	8.4	8.2	4.0	4.0	3.4	2.0	1.8	1.9	1.8	2.1	1.8
8	7.7	7.3	6.7	5.0	5.4	3.3	2.4	1.9	1.8	1.8	2.1	1.8
9	6.0	6.3	5.9	5.8	7.7	3.3	2.4	1.9	2.0	1.8	2.1	1.8
10	5.2	4.5	5.6	5.4	6.6	3.3	2.2	1.9	2.1	1.8	2.0	1.8
11	4.6	4.0	5.4	5.0	5.8	3.3	2.0	1.9	2.2	1.8	2.0	1.8
12	4.2	4.0	5.2	4.8	5.6	3.3	2.0	1.9	2.1	1.8	1.9	2.3
13	4.0	4.0	5.0	4.7	5.6	4.4	2.0	1.9	2.1	1.8	1.9	3.5
14	3.8	4.0	4.6	4.6	6.2	4.5	2.0	2.0	2.0	1.8	1.9	3.0
15	4.2	3.5	4.8	4.4	5.7	4.2	1.9	2.6	2.0	1.8	1.9	3.0
16	4.3	3.6	5.6	4.4	5.2	4.0	1.9	2.4	1.9	1.8	1.9	2.6
17	4.2	3.8	5.3	4.3	4.8	3.7	1.9	2.2	1.9	1.8	1.8	2.4
18	4.2	4.2	5.0	4.0	4.6	3.6	1.9	2.0	1.8	1.8	1.8	2.3
19	4.0	4.8	7.2	4.0	4.5	3.4	1.9	1.9	2.4	1.8	1.8	2.2
20	3.8	5.7	7.8	3.9	4.4	3.3	1.9	1.9	3.6	1.8	1.8	2.2
21	3.6	7.2	6.4	3.9	4.0	3.2	1.9	1.8	3.4	1.7	1.8	2.1
22	3.5	10.2	5.6	3.8	4.0	3.1	1.8	1.8	2.6	1.7	1.8	2.1
23	3.5	9.4	5.2	3.8	3.9	3.1	1.8	1.8	2.4	1.7	1.8	2.1
24	3.4	7.4	4.8	3.7	3.9	3.0	1.8	1.8	2.2	1.7	1.8	2.1
25	3.4	6.2	4.6	3.7	3.9	3.2	1.8	1.8	2.1	1.7	1.8	2.1
26	3.6	5.4	4.2	3.8	3.8	3.1	1.8	1.8	2.1	1.7	1.8	2.2
27	3.5	8.9	4.1	4.2	3.6	3.6	1.9	1.9	2.0	1.7	1.8	2.3
28	3.4	9.6	4.0	4.0	3.6	3.3	1.9	1.8	2.0	1.7	1.8	2.2
29	3.3	-----	4.8	4.0	3.5	3.2	2.0	2.0	2.0	1.7	1.8	2.2
30	3.2	-----	5.6	3.9	3.6	3.1	2.0	1.9	1.9	1.7	1.8	2.2
31	3.1	-----	5.8	-----	3.6	-----	1.9	1.9	-----	1.7	-----	2.2

¹ U. S. Geological Survey records.

DAILY RIVER STAGES.

James River system—James River, Lynchburg, Va.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.0	0.4	1.1	7.3	1.5	0.8	1.4	2.5	0.2	9.6	0.2	5.5
2	2.0	0.9	1.1	7.5	2.1	0.6	1.0	2.1	0.2	4.2	0.2	4.1
3	1.8	1.4	1.0	6.0	4.6	0.5	0.4	1.9	0.1	2.8	0.2	3.0
4	1.4	5.6	1.0	4.3	3.9	0.6	0.8	1.7	0.1	1.9	0.2	2.5
5	Frozen.	3.4	1.0	3.6	2.7	0.7	1.0	1.4	0.4	1.8	5.1	2.2
6		4.0	1.0	3.1	2.3	0.7	0.9	1.2	0.3	1.5	7.4	1.2
7		5.5	0.9	2.7	2.0	0.8	1.0	1.0	0.2	1.3	5.6	1.6
8		5.2	0.9	2.3	1.7	1.6	2.1	0.9	0.1	1.0	2.7	1.5
9	0.5	3.8	0.8	2.0	1.5	1.9	8.8	0.8	0.0	0.9	2.3	1.5
10	0.5	3.8	0.6	2.1	1.5	1.9	10.6	0.7	0.0	0.9	2.1	1.5
11	0.4	3.1	0.7	2.1	1.4	1.5	5.3	0.7	0.0	0.8	1.8	1.4
12	0.4	2.5	0.9	1.9	1.3	1.4	4.4	0.6	0.0	0.6	1.5	1.4
13	0.3	2.3	0.9	1.7	1.1	1.3	3.2	0.7	0.0	0.6	1.5	1.3
14	0.2	3.6	1.0	1.5	1.1	1.4	2.8	0.4	-0.1	0.7	1.4	1.3
15	0.1	4.7	1.0	1.2	1.7	1.0	2.2	0.9	-0.1	0.5	1.4	1.2
16	0.1	3.4	1.3	1.3	1.3	0.8	2.0	1.1	0.0	0.5	1.3	1.0
17	0.1	2.8	4.5	1.3	1.1	0.9	1.8	0.9	0.0	0.5	1.1	1.0
18	0.4	2.2	5.4	1.2	1.0	1.3	1.6	0.7	0.0	0.5	1.1	0.9
19	0.2	1.9	5.9	1.1	0.8	1.2	1.5	0.5	0.0	0.4	1.0	0.9
20	0.1	1.8	6.5	1.1	0.6	1.4	1.4	0.2	0.1	0.4	1.0	0.8
21	0.2	Frozen.	5.7	1.1	1.1	1.2	1.3	0.5	0.1	0.4	1.1	0.8
22	0.2		4.6	1.1	1.4	1.0	1.2	0.9	0.1	0.3	1.1	0.8
23	0.4		3.2	1.1	1.6	1.0	2.0	1.0	0.0	0.3	0.9	0.6
24	3.4	1.6	2.8	1.2	1.4	0.9	1.4	1.3	-0.1	0.3	0.8	0.6
25	4.5	1.3	3.4	1.4	1.3	0.8	1.4	1.6	-0.1	0.4	0.8	0.5
26	4.8	1.1	3.1	1.6	1.3	1.2	1.2	1.0	-0.1	0.4	0.7	0.5
27	3.3	1.1	2.9	1.5	1.4	2.5	0.9	0.9	-0.1	0.4	0.6	0.4
28	2.0	1.0	2.5	1.5	1.2	2.0	0.9	0.7	0.1	0.3	0.6	0.4
29	1.5	1.0	3.4	1.4	1.2	1.9	0.8	0.5	3.2	0.3	1.7	0.5
30	1.0		7.8	1.3	1.2	1.5	0.7	0.4	14.4	0.2	5.6	0.5
31	0.3		9.2		1.2		0.5	0.3		0.2		0.5

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1	0.4	Frozen.	2.9	1.8	1.2	1.0	0.3	0.3	0.3	-0.2	-0.2	-0.1
2	0.4	0.8	2.4	1.6	3.7	0.9	0.9	0.2	0.0	-0.2	-0.2	-0.1
3	0.4	1.3	2.1	1.5	3.8	1.0	0.9	0.1	-0.1	-0.2	-0.2	0.0
4	0.4	1.1	2.0	1.4	4.6	1.0	0.8	0.0	-0.1	-0.2	-0.2	0.0
5	0.5	0.9	2.1	1.7	3.5	1.5	0.7	0.4	-0.1	-0.2	-0.2	0.1
6	0.5	4.8	2.2	2.0	2.9	1.5	0.5	0.6	-0.1	-0.2	-0.2	0.1
7	0.5	11.3	2.2	2.5	2.6	1.4	0.4	0.2	-0.1	-0.2	-0.2	0.1
8	0.5	6.5	2.2	2.2	2.3	1.3	0.4	0.3	-0.1	-0.2	-0.2	0.1
9	0.5	5.4	2.3	2.5	2.0	1.3	0.4	0.4	-0.2	-0.2	-0.2	0.0
10	0.4	4.2	2.4	2.3	1.8	1.0	0.4	0.3	-0.2	-0.2	-0.2	0.0
11	0.4	3.4	2.4	2.3	1.8	1.0	0.3	0.3	-0.2	-0.2	-0.2	0.0
12	0.4	3.5	3.0	2.4	1.8	0.8	0.3	0.1	-0.2	1.0	1.0	0.0
13	0.4	4.1	4.1	2.2	2.3	0.8	0.4	0.0	-0.2	0.3	0.3	0.2
14	0.5	5.3	4.7	1.9	10.4	0.9	0.4	0.0	-0.2	0.1	0.1	0.5
15	0.5	4.8	5.6	1.8	6.4	0.8	0.3	-0.1	-0.2	0.0	0.0	1.5
16	0.5	4.6	5.2	1.8	4.1	0.8	0.2	0.0	-0.2	0.0	0.0	1.7
17	0.5	4.5	4.0	1.7	3.3	0.7	0.1	0.0	-0.2	-0.1	-0.1	1.5
18	0.5	3.8	3.4	1.6	2.9	0.6	0.1	0.0	-0.2	-0.1	-0.1	1.3
19	0.5	3.5	3.8	1.5	2.5	0.6	0.1	0.1	-0.2	-0.1	-0.1	0.9
20	0.6	3.5	4.6	1.5	2.4	1.6	0.3	0.1	-0.2	0.0	0.0	0.9
21	0.9	3.9	4.2	1.4	2.1	1.0	1.0	0.1	-0.2	0.2	0.2	1.0
22	1.0	8.3	3.9	1.3	1.9	0.8	1.5	0.1	-0.2	0.0	0.0	0.8
23	1.0	11.9	3.4	1.2	1.7	0.7	1.9	0.2	-0.1	0.2	0.2	1.4
24	0.8	13.6	3.0	1.2	1.7	0.6	1.4	0.2	-0.1	0.4	0.4	1.3
25	0.8	6.3	2.9	1.1	1.7	0.5	1.2	0.1	-0.1	0.2	0.2	1.3
26	Frozen.	4.7	2.6	1.0	1.6	0.5	1.0	0.1	-0.1	0.0	0.0	1.5
27		3.8	2.4	1.1	1.4	0.5	0.8	0.1	-0.2	0.1	0.1	1.3
28		3.2	2.2	1.1	1.3	0.4	0.7	0.1	-0.2	0.2	0.2	1.1
29			2.1	1.0	1.1	0.4	0.7	0.0	-0.2	0.0	0.0	1.0
30			1.9	1.0	1.0	0.3	0.5	0.0	-0.2	0.0	0.0	0.6
31			1.8		0.9		0.4	-0.1		0.0		0.4

DAILY RIVER STAGES.

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James River system—James River, Lynchburg, Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.4	1.5	0.8	5.4	1.2	1.3	0.3	1.0	0.4	0.3	2.5	1.5
2	0.3	0.9	0.8	5.1	1.2	1.2	0.2	1.0	0.3	0.3	2.3	1.5
3	0.2	Frozen.	0.8	4.4	1.0	1.1	0.2	0.6	0.3	0.6	2.0	1.5
4	0.4	-----	0.9	3.8	1.0	1.0	0.2	1.2	0.3	0.8	1.8	3.5
5	0.5	-----	0.9	2.9	0.9	1.0	0.2	4.0	1.0	1.4	1.7	4.2
6	0.5	-----	0.9	2.5	1.8	0.7	0.0	4.5	0.5	2.0	1.7	4.2
7	0.4	0.7	0.9	2.5	6.4	0.7	0.2	2.5	0.5	2.5	1.6	3.2
8	0.3	0.6	0.9	2.2	7.6	0.5	0.2	2.1	0.3	1.9	1.4	2.7
9	0.3	0.6	0.9	2.0	6.0	0.5	0.1	2.1	0.2	1.5	1.4	2.2
10	0.4	0.5	0.9	2.0	4.3	0.4	0.3	3.9	0.1	1.3	1.3	2.0
11	0.8	0.5	0.8	2.8	3.5	0.4	0.3	9.5	0.1	1.0	1.3	1.9
12	1.1	0.5	0.8	3.7	3.0	0.6	0.1	5.9	0.0	1.1	1.3	1.8
13	1.7	0.5	0.8	3.5	2.6	0.7	0.0	3.6	0.0	1.0	1.7	1.8
14	1.5	0.5	0.8	3.1	2.3	0.8	0.1	3.5	0.0	0.9	1.7	1.8
15	1.6	0.5	0.8	5.2	2.2	0.7	0.0	3.4	0.0	0.8	1.5	1.4
16	2.3	0.5	0.7	5.3	2.0	1.2	0.0	2.8	0.0	0.8	1.4	1.2
17	2.8	0.4	0.7	4.1	1.8	1.0	0.2	2.2	0.0	0.8	1.4	1.1
18	2.5	0.4	0.8	3.3	1.7	1.0	1.0	1.8	-0.2	0.7	1.6	1.1
19	2.0	0.4	1.0	2.7	1.6	1.2	0.7	1.8	-0.1	5.5	2.0	1.1
20	1.7	0.5	1.3	2.5	1.8	1.3	0.7	1.5	-0.1	2.9	4.0	1.1
21	1.9	0.8	1.9	2.3	1.5	1.3	0.6	1.4	-0.2	3.5	3.5	1.2
22	2.1	1.2	1.5	1.9	1.8	1.0	1.5	1.0	-0.2	12.0	3.0	1.9
23	2.0	1.5	1.4	1.6	3.3	0.9	1.5	1.0	3.0	7.0	2.7	3.0
24	2.2	1.4	1.2	1.6	3.8	0.8	1.3	0.8	2.6	3.8	2.6	4.1
25	2.4	1.4	1.8	1.6	3.7	0.6	0.9	0.8	2.5	3.5	2.5	3.4
26	2.3	1.2	2.6	1.5	2.9	0.6	0.8	0.9	1.1	3.0	2.2	2.8
27	1.7	1.0	2.8	1.5	2.6	0.5	0.8	0.9	0.8	3.0	2.0	2.5
28	1.5	0.8	2.5	1.4	2.3	0.4	1.3	1.0	0.5	2.8	1.9	2.2
29	1.4	-----	2.2	1.4	2.0	0.4	1.6	0.8	0.4	2.4	1.8	2.0
30	1.5	-----	5.7	1.3	1.8	0.4	1.5	0.7	0.3	2.4	1.6	1.8
31	1.6	-----	6.3	-----	1.5	-----	1.2	0.5	-----	2.7	-----	1.6

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.2	1.5	5.9	3.0	1.4	1.5	0.3	0.0	0.2	0.3	1.5	0.0
2	2.0	1.3	5.2	2.7	1.4	1.4	0.2	0.0	0.2	0.3	1.2	0.0
3	1.8	1.3	4.8	2.5	1.3	1.1	0.2	0.0	0.1	0.3	2.2	0.0
4	1.6	1.9	7.1	2.3	1.3	1.0	0.2	0.0	0.1	0.2	1.5	0.1
5	1.2	2.5	19.0	2.3	1.3	1.0	0.3	0.1	0.1	0.2	1.0	0.1
6	4.8	4.0	14.2	2.1	1.3	0.9	0.3	0.3	0.1	0.3	0.6	0.1
7	8.6	6.5	5.9	2.0	1.5	0.9	0.2	0.5	0.1	0.4	0.4	0.1
8	6.3	4.8	5.5	2.6	1.8	0.8	0.4	0.1	0.1	0.6	0.4	0.0
9	4.4	3.9	4.4	2.9	4.7	0.8	0.6	0.1	0.2	0.5	0.4	0.0
10	3.6	3.5	4.2	2.8	5.1	0.7	0.5	0.3	0.2	0.4	0.4	0.0
11	3.1	2.9	4.0	2.6	3.2	0.8	0.2	0.4	0.4	0.2	0.4	0.0
12	2.8	2.9	3.8	2.5	2.9	1.0	0.2	0.5	0.5	0.1	0.3	0.3
13	2.3	2.9	3.5	2.3	2.9	1.7	0.1	0.4	0.4	0.1	0.3	1.6
14	2.3	Frozen.	3.3	2.2	2.8	1.9	0.1	0.4	0.3	0.1	0.2	1.3
15	2.1	-----	4.1	2.0	2.7	1.7	0.0	1.2	0.1	0.1	0.2	1.1
16	1.7	-----	3.9	1.7	2.7	1.5	0.0	1.0	0.1	0.1	0.2	1.0
17	2.4	-----	3.9	1.7	2.4	1.4	0.0	0.6	0.1	0.1	0.2	0.8
18	2.5	3.0	3.9	1.7	2.2	1.2	0.0	0.3	0.1	0.0	0.2	0.6
19	2.4	3.7	7.7	1.6	2.0	1.0	0.0	0.1	0.1	0.0	0.1	0.3
20	2.3	4.4	6.6	1.6	1.9	0.8	0.0	0.1	2.6	0.0	0.1	0.3
21	2.2	5.6	5.3	1.5	1.6	0.6	0.0	0.0	2.4	0.0	0.1	0.2
22	2.0	6.8	4.4	1.4	1.5	0.5	0.0	0.0	1.2	0.0	0.1	0.2
23	2.0	8.3	3.8	1.4	1.5	0.4	0.0	0.0	0.9	0.0	0.1	0.2
24	2.2	6.4	3.4	1.4	1.5	0.2	0.0	-0.1	0.6	0.0	0.3	0.2
25	2.1	4.8	3.1	1.4	1.4	0.2	0.1	-0.1	0.4	0.0	0.3	0.4
26	2.0	4.0	3.0	1.4	1.4	0.2	0.4	-0.1	0.3	0.0	0.2	0.7
27	2.0	6.2	2.8	1.6	1.3	0.4	0.4	0.7	0.3	0.0	0.1	0.8
28	1.9	7.5	2.6	1.6	1.2	0.6	0.4	0.9	0.3	0.0	0.1	0.5
29	1.9	-----	2.9	1.5	1.0	0.7	0.2	0.7	0.3	0.0	0.1	0.2
30	1.8	-----	3.5	1.4	1.0	0.4	0.1	0.4	0.3	0.0	0.1	Frozen.
31	1.6	-----	3.3	-----	1.0	-----	0.1	0.2	-----	0.2	-----	Frozen.

DAILY RIVER STAGES.

James River system—James River, Richmond, Va.

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-----	-0.1	2.0	0.5	0.1	0.1	-0.1	0.0	0.3	-0.2	0.5	0.0
2	-----	0.1	1.6	0.3	0.2	0.1	-0.2	0.1	0.3	-0.2	0.0	-0.1
3	-----	0.4	1.5	0.2	0.9	0.1	-0.1	0.2	0.3	-0.2	1.0	-0.1
4	-----	0.7	1.3	0.2	3.8	0.1	0.0	0.5	0.4	-0.3	0.9	-0.1
5	-----	2.5	1.2	0.2	3.8	0.4	0.1	0.3	0.1	-0.3	0.5	0.0
6	-----	2.0	1.0	0.5	2.5	0.5	0.5	0.0	-0.2	-0.3	0.0	0.5
7	-----	7.5	1.8	0.8	2.0	1.0	0.3	0.1	-0.3	-0.3	0.0	0.5
8	-----	11.9	1.7	1.0	1.5	0.9	0.1	-0.1	-0.4	-0.3	-0.1	0.1
9	-----	9.5	1.6	1.6	1.0	0.1	-0.2	-0.1	-0.4	-0.3	-0.1	0.1
10	-----	5.7	1.5	1.4	0.7	0.1	-0.2	-0.3	-0.3	-0.3	-0.1	0.1
11	-0.2	3.0	1.4	1.4	0.5	0.1	-0.1	-0.3	-0.3	-0.3	-0.1	0.0
12	-0.2	2.0	1.5	0.8	0.5	0.0	-0.2	-0.3	-0.1	-0.3	-0.2	0.0
13	-0.2	2.4	1.9	0.8	0.5	0.0	-0.1	-0.3	-0.1	-0.3	-0.2	0.0
14	-0.2	1.5	2.0	0.7	1.4	-0.1	0.1	-0.3	-0.2	-0.3	-0.2	0.5
15	-0.2	3.4	3.4	0.7	4.5	-0.1	0.1	-0.3	-0.3	0.0	-0.1	0.5
16	-0.2	2.6	3.5	0.6	7.4	-0.2	0.0	-0.3	-0.3	-0.1	-0.1	1.5
17	-0.2	2.5	3.7	0.6	4.4	0.5	0.0	-0.2	-0.2	-0.1	-0.2	1.0
18	-0.2	3.7	3.6	0.6	2.5	0.9	0.0	-0.1	-0.2	0.0	-0.2	0.5
19	-0.2	3.8	3.0	0.6	2.0	1.0	0.4	-0.2	-0.2	-0.2	-0.2	0.4
20	-0.2	2.7	3.2	0.5	1.6	0.7	0.0	-0.4	-0.2	-0.2	-0.2	0.4
21	0.1	2.1	3.7	0.7	1.3	0.6	0.0	-0.5	-0.3	-0.1	-0.2	0.2
22	0.3	2.8	3.5	0.7	1.1	0.4	-0.1	-0.5	-0.3	-0.1	-0.2	0.2
23	0.2	7.8	3.1	0.5	1.0	0.4	-0.1	-0.5	-0.3	-0.1	-0.2	0.3
24	0.2	15.0	2.6	0.4	0.5	0.0	0.7	-0.5	-0.3	0.0	-0.3	0.4
25	0.2	13.9	1.9	0.4	0.5	-0.1	0.6	-0.4	-0.2	+0.2	-0.3	0.4
26	0.2	8.6	1.5	0.4	0.6	-0.1	0.3	-0.2	-0.3	0.0	-0.3	0.3
27	0.3	3.9	1.3	0.3	0.5	0.1	0.0	-0.2	-0.3	1.0	-0.3	0.4
28	0.4	2.4	1.0	0.3	0.4	-0.1	-0.1	-0.2	-0.3	0.5	-0.3	1.0
29	0.1	-----	0.8	0.1	0.3	-0.2	0.0	-0.2	-0.3	0.5	-0.2	0.6
30	-0.1	-----	0.7	0.1	0.3	-0.1	-0.1	-0.2	-0.2	0.6	0.5	0.3
31	-0.1	-----	0.5	-----	0.1	-----	-0.1	-0.2	-----	0.5	-----	0.2

1898.

1	0.1	0.7	0.1	4.5	0.6	0.6	0.0	0.7	0.0	-0.1	1.8	0.9
2	0.1	0.6	0.1	3.5	0.5	0.4	-0.1	0.7	0.0	0.0	1.6	0.9
3	0.0	0.4	0.0	2.4	0.3	0.3	-0.1	0.6	0.0	0.0	1.4	0.8
4	-0.1	0.3	0.0	1.8	0.2	0.3	-0.1	0.4	0.0	0.1	1.2	1.2
5	-0.1	0.3	0.1	1.4	0.2	0.5	-0.2	0.2	0.1	0.6	1.1	3.4
6	-0.1	0.2	0.2	1.9	0.3	0.9	0.3	2.0	0.1	0.6	0.9	5.9
7	-0.1	0.2	0.2	1.6	1.7	0.6	0.6	3.2	0.0	1.5	0.8	3.4
8	-0.1	0.0	0.1	1.2	6.5	0.7	0.7	3.0	0.1	1.0	0.7	2.5
9	-0.1	0.0	0.1	1.1	10.2	0.7	0.7	1.5	0.0	1.0	0.6	1.7
10	-0.1	0.4	0.0	1.1	7.3	0.8	0.2	1.0	-0.1	0.7	0.6	1.3
11	-0.1	0.3	0.2	1.1	4.5	0.4	0.0	7.0	-0.1	0.4	0.5	1.1
12	-0.1	0.5	0.3	3.4	3.0	0.3	0.0	6.5	-0.1	0.4	0.5	0.9
13	0.0	0.5	0.4	2.8	2.2	0.1	-0.1	7.1	-0.1	0.3	0.5	0.8
14	0.1	0.0	0.3	2.5	1.7	0.1	-0.2	3.1	-0.2	0.2	0.5	0.8
15	0.7	-0.1	0.1	1.9	1.2	0.4	-0.2	4.6	-0.2	0.1	0.5	0.7
16	0.5	-0.1	0.0	2.9	0.9	0.6	-0.2	2.5	-0.2	0.1	0.5	0.5
17	0.5	-0.1	0.0	3.2	0.8	0.6	-0.2	1.6	-0.2	0.1	0.7	0.6
18	0.9	-0.1	0.0	2.3	0.7	0.4	0.0	1.1	-0.2	0.5	1.0	0.8
19	1.2	-0.1	0.0	1.7	0.6	0.4	0.0	0.8	-0.1	0.6	1.4	0.6
20	1.9	-0.1	0.1	1.3	0.5	0.5	0.8	0.7	-0.1	5.5	1.4	0.7
21	1.5	-0.1	0.0	1.1	0.4	0.6	0.4	0.8	0.3	3.9	1.3	0.7
22	1.7	0.1	0.7	0.9	0.7	0.5	0.3	1.6	0.3	3.0	2.0	0.8
23	1.7	0.4	0.6	0.7	2.6	0.5	0.6	0.8	-0.2	8.9	1.7	1.0
24	0.9	0.4	0.6	0.8	1.4	0.4	1.7	0.4	1.5	11.7	1.5	3.5
25	0.9	0.4	0.7	1.2	2.5	0.3	1.2	0.2	1.6	5.0	1.3	2.2
26	0.9	0.6	1.1	1.7	2.8	0.3	0.7	0.1	0.9	2.7	1.2	2.3
27	1.3	0.5	1.1	2.0	2.8	0.2	0.3	0.0	0.5	2.0	1.1	1.8
28	1.5	0.2	1.7	2.8	2.3	0.1	2.8	0.0	0.1	1.7	0.8	1.4
29	1.2	-----	1.3	2.3	1.7	0.0	1.9	0.0	0.0	1.5	0.9	1.2
30	1.0	-----	1.3	0.8	1.2	0.0	1.0	0.0	0.0	1.4	0.9	1.0
31	0.9	-----	2.0	-----	0.8	-----	0.8	0.0	-----	2.5	-----	0.9

DAILY RIVER STAGES.

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James River system—James River, Richmond, Va.—Continued.

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.9	0.2	7.4	2.5	1.0	0.4	-0.1	-2.0	-2.0	-2.6	-1.0	-2.3
2	1.3	1.1	6.3	2.4	0.7	0.3	-0.2	-2.4	-2.5	-2.6	0.3	-2.0
3	1.3	1.0	4.5	1.8	0.5	0.4	-0.5	-2.6	-2.4	-2.4	-0.7	-1.5
4	0.9	1.1	3.9	1.4	0.6	0.5	-0.6	-2.3	-1.6	-2.0	-0.8	-2.0
5	1.1	1.7	5.7	1.2	0.7	0.3	-0.6	-2.0	-1.3	-1.8	-0.1	-1.8
6	1.2	2.3	14.5	1.1	0.5	0.3	-0.6	-1.8	-1.4	-1.3	-0.8	-1.5
7	8.5	3.3	20.5	1.1	0.6	0.1	-0.5	-1.0	-1.1	0.0	-0.5	-0.7
8	13.5	4.4	14.3	2.2	0.9	0.0	-0.5	-0.8	-0.8	0.7	0.1	-0.9
9	8.8	4.5	6.4	4.3	1.0	0.0	-0.1	-0.2	-0.5	-0.3	-0.2	-0.9
10	4.7	3.6	5.4	2.3	1.1	0.0	-0.6	-0.1	0.3	0.3	-0.7	-1.1
11	3.0	2.7	4.9	2.2	2.8	0.3	-0.4	-0.4	0.8	-0.1	-1.2	-1.4
12	2.4	2.3	4.0	1.9	2.3	0.5	-0.3	0.2	0.3	-0.5	-2.8	-2.0
13	2.0	9.8	3.3	1.8	1.9	0.7	-0.4	0.3	-0.5	-1.2	-2.7	-2.8
14	2.0	9.0	3.0	1.6	1.6	0.9	0.2	-0.3	-1.2	-2.5	-2.6	-2.0
15	2.0	8.0	3.4	1.6	1.7	0.9	-0.3	-0.6	-2.5	-2.6	-2.5	-1.8
16	1.9	5.5	5.0	1.4	1.8	0.8	-0.5	-0.8	-2.5	-2.4	-2.3	-1.5
17	1.9	8.5	4.5	1.2	1.4	0.6	-0.8	-1.2	-2.5	-2.2	-1.5	-1.5
18	2.2	19.5	3.5	1.0	1.2	0.5	-1.0	0.0	-2.3	-1.7	-1.3	-1.5
19	1.8	17.5	4.5	0.9	1.0	0.1	-1.0	-1.4	-1.8	-1.4	-1.0	-1.3
20	1.4	15.4	13.6	0.8	0.8	0.0	-1.0	-1.5	-1.3	-1.3	-0.4	-1.1
21	1.2	14.5	11.0	0.8	0.8	-0.1	-1.2	-1.6	0.5	-0.1	0.0	-0.4
22	1.1	9.2	6.0	0.7	0.6	-0.1	-1.4	-1.5	0.4	-0.1	0.5	-0.2
23	1.1	10.2	3.9	0.7	0.5	-0.2	-1.5	-0.9	0.0	-0.1	0.2	-0.2
24	1.0	9.6	3.0	0.6	0.5	-0.2	-1.4	-0.1	0.4	-0.5	0.6	0.9
25	1.0	6.9	2.4	0.6	0.5	-0.2	-0.4	0.5	0.4	-0.5	-0.5	-0.1
26	1.1	4.3	2.0	0.6	0.4	0.0	0.3	0.7	-0.2	-0.7	-0.9	-0.5
27	1.0	3.4	2.0	0.6	0.4	0.6	0.1	0.0	-0.5	-1.4	-1.4	-1.8
28	1.0	6.0	1.9	1.0	0.3	0.9	-0.1	1.6	-2.0	-2.5	-2.5	-2.8
29	0.9	.....	1.9	1.1	0.5	0.1	-0.5	0.4	-2.8	-2.8	-2.5	Frozen.
30	0.9	.....	2.2	1.1	0.6	0.0	-1.0	-0.6	-2.6	-2.7	-2.5	Frozen.
31	1.0	.....	2.1	.....	0.5	.....	-1.3	-1.5	.....	0.3	.....	Frozen.

122.0 at 2 p. m.

4044—9

DAILY RIVER STAGES.

Mississippi River system—Mississippi River, St. Paul, Minn.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	0.7	7.9	9.1	5.7	1.9	2.1	2.1	2.5	-----
2				0.0	8.3	8.7	5.4	1.8	1.8	2.1	2.5	-----
3				-0.1	8.6	8.5	5.3	1.8	1.7	2.0	2.9	-----
4				0.4	8.9	8.1	5.2	2.1	1.4	2.1	2.8	-----
5				1.0	9.1	8.0	5.1	1.7	1.4	1.9	2.8	-----
6				1.4	9.2	7.6	4.8	1.7	1.3	2.2	2.8	-----
7				1.7	9.3	8.0	4.7	1.8	1.4	1.9	2.9	-----
8				1.8	9.1	8.1	4.6	2.1	1.6	1.8	3.0	-----
9				1.8	9.0	8.3	4.3	2.0	1.7	1.8	2.9	-----
10			-0.2	1.8	8.8	8.6	4.2	2.0	1.9	1.9	2.9	-----
11			-0.4	2.1	8.7	8.8	4.1	2.2	2.0	1.9	2.6	-----
12			-0.3	2.7	8.4	8.9	4.1	2.3	1.9	2.1	2.2	-----
13			-0.2	3.9	8.4	8.9	4.0	2.5	1.8	2.2	1.9	-----
14			0.0	7.0	8.4	8.7	3.9	2.6	1.8	2.2	2.0	-----
15			0.0	8.3	8.5	8.4	3.8	2.6	1.9	2.3	2.1	-----
16			-0.5	9.5	8.6	8.0	3.5	2.5	2.2	2.2	1.8	-----
17			-0.2	10.5	9.2	7.6	3.2	2.4	2.3	2.2	2.0	-----
18			-0.4	10.7	9.6	7.2	3.0	2.3	2.3	2.1	2.0	-----
19			-0.9	10.4	10.0	6.9	2.9	2.2	2.3	2.1	2.0	-----
20			-0.9	9.9	10.3	6.7	2.8	2.1	2.2	2.2	1.6	-----
21			-0.8	9.5	10.5	6.5	2.9	2.1	2.1	2.2	1.5	-----
22			-0.9	9.0	10.5	6.1	2.7	2.0	2.0	2.1	1.8	-----
23			-0.8	8.6	10.4	6.2	2.7	2.1	2.0	2.0	3.7	-----
24			-0.4	8.3	10.2	6.4	2.6	2.1	2.0	2.0	2.7	-----
25			-0.4	7.8	10.0	6.6	2.6	2.2	1.9	2.1	3.0	-----
26			-0.2	7.6	9.7	6.7	2.5	2.0	2.0	2.0	3.3	-----
27			-0.2	7.4	9.5	6.8	2.4	2.0	2.1	1.9	3.5	-----
28			-0.1	7.1	9.5	6.6	2.1	2.0	2.1	2.0	Frozen.	-----
29			0.1	7.2	9.5	6.2	2.0	1.9	2.1	1.9	-----	-----
30			0.2	7.5	9.5	6.0	1.9	1.8	2.0	2.3	-----	-----
31			0.7	-----	9.3	-----	1.8	1.9	-----	2.5	-----	-----

1897.

1	Frozen.	Frozen.	Frozen.	15.3	10.0	5.2	6.5	8.9	4.5	4.9	3.8	Frozen.
2				16.4	9.8	5.5	6.6	8.7	4.5	4.8	3.9	-----
3				17.1	9.6	5.5	6.7	8.6	4.6	4.7	3.9	3.2
4				17.4	9.1	5.5	6.8	8.4	4.6	4.5	3.9	Frozen.
5				17.9	8.8	5.7	7.9	8.2	4.6	4.6	3.8	-----
6				18.0	8.5	5.8	8.9	8.0	4.7	4.5	3.8	-----
7				17.8	8.2	5.9	9.9	7.7	4.7	4.5	3.8	-----
8				17.7	7.9	6.0	12.0	7.8	4.6	4.4	3.8	-----
9				17.8	7.6	5.9	13.0	7.6	4.6	4.4	3.8	-----
10				17.7	7.3	5.9	13.3	7.2	4.5	4.3	3.7	4.1
11				17.5	7.1	6.0	13.6	6.9	4.5	4.1	3.6	Frozen.
12				17.1	7.0	5.9	13.5	6.6	4.5	4.2	3.6	-----
13				16.6	6.8	5.7	13.3	6.3	4.6	4.2	3.6	-----
14				16.2	6.7	5.8	13.0	6.0	4.9	4.1	3.6	-----
15				15.7	6.6	5.8	12.6	5.8	5.1	4.0	3.6	-----
16				15.2	6.5	5.9	12.3	5.6	5.2	4.0	3.6	-----
17				14.9	6.4	5.9	11.8	5.5	5.5	4.0	3.5	4.0
18				14.6	6.4	6.0	11.3	5.4	5.5	3.9	3.5	Frozen.
19				14.0	6.4	6.2	10.8	5.4	5.5	4.0	3.4	-----
20			3.9	13.7	6.4	6.4	10.4	5.3	5.4	4.1	3.3	-----
21			4.9	13.3	6.4	6.6	10.2	5.2	5.3	4.1	3.2	-----
22			5.5	13.0	6.2	6.7	9.9	5.2	5.4	4.1	3.2	-----
23			6.5	12.8	6.0	6.8	9.7	5.1	5.4	4.1	2.9	-----
24			7.6	12.4	5.8	6.7	9.6	5.0	5.3	4.2	2.6	3.9
25			8.4	12.1	5.7	6.6	9.5	5.0	5.2	4.1	2.5	Frozen.
26			9.1	11.7	5.6	6.3	9.8	5.0	5.0	4.1	2.4	-----
27			9.5	11.4	5.6	6.1	9.8	4.8	5.0	4.0	2.3	-----
28			9.9	11.0	5.5	6.1	9.6	4.7	5.0	3.9	Frozen.	-----
29			10.1	10.6	5.4	6.2	9.4	4.6	5.0	3.9	-----	-----
30			12.2	10.3	5.3	6.4	9.1	4.5	4.9	3.8	-----	-----
31			13.5	-----	5.3	-----	9.0	4.5	-----	3.8	-----	3.5

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, St. Paul, Minn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	3.8	3.2	5.2	4.8	3.8	3.2	3.1	3.9	Frozen.
2				3.6	3.3	5.2	5.0	3.8	3.1	2.9	3.9	
3				3.6	3.4	5.2	4.9	3.6	2.9	2.8	3.8	
4				3.6	3.4	5.0	4.9	3.5	2.8	2.8	3.8	
5				3.8	3.6	5.1	5.0	3.3	2.8	2.8	3.8	
6				3.9	3.6	8.9	5.2	3.8	2.8	2.9	3.7	
7				3.9	3.7	10.3	5.5	3.4	2.8	3.1	3.5	
8			3.7	3.9	3.6	10.7	5.6	3.4	2.7	3.2	3.5	
9			3.8	3.9	3.4	10.7	5.7	3.3	2.7	3.2	3.5	
10			4.1	3.8	3.4	10.5	6.1	3.2	2.7	3.3	3.4	
11			4.2	3.8	3.1	10.2	6.4	3.0	2.9	3.6	3.4	
12			4.1	4.0	3.1	9.9	6.7	3.0	2.8	3.5	3.3	
13			3.6	4.0	2.9	9.6	6.9	3.0	2.8	3.8	3.3	
14			3.1	3.9	2.9	9.4	6.6	2.8	3.0	4.0	3.1	
15			4.2	4.1	3.1	9.0	6.2	2.7	3.1	4.0	3.1	
16			3.9	4.1	3.0	8.4	5.9	3.0	3.1	4.1	3.1	
17			3.8	4.0	3.0	7.9	5.5	2.8	3.0	4.1	3.1	
18			3.7	3.9	3.0	7.5	5.3	2.8	3.0	4.2	3.1	
19			4.0	3.9	3.1	7.2	5.1	2.8	2.8	4.2	3.1	
20			3.9	3.9	3.2	6.9	5.0	2.7	2.8	4.3	3.2	
21			3.8	3.8	3.3	6.6	4.8	2.8	2.8	4.4	3.1	
22			3.8	3.7	3.8	6.4	4.6	2.8	2.8	4.5	3.1	
23			3.7	3.5	4.0	6.3	4.4	2.8	2.9	4.6	Frozen.	
24			3.0	3.4	4.3	6.0	4.3	2.9	2.9	4.6		
25			3.4	3.1	4.6	5.7	4.2	3.0	3.1	4.6		
26			3.8	3.2	4.7	5.3	4.2	3.0	3.1	4.5		
27			3.9	3.0	4.5	5.1	4.2	3.0	3.1	4.5		
28			3.6	3.0	4.7	5.0	4.0	3.1	3.1	4.4		
29			2.8	3.0	4.8	4.8	3.9	3.2	3.1	4.2		
30			2.8	3.0	5.0	4.7	3.9	3.3	3.2	4.1		
31			3.4		5.0		4.0	3.3		4.0		

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	Frozen.	6.4	5.7	8.7	4.0	7.5	4.4	7.2	4.7
2					6.6	6.6	8.7	3.8	7.2	4.3	7.1	4.7
3					6.8	7.7	8.5	3.7	6.9	4.2	7.0	4.6
4					7.0	8.2	8.3	3.7	6.7	4.2	6.8	4.5
5					7.1	8.5	8.0	3.6	6.4	4.2	6.7	4.2
6					7.2	8.7	7.8	3.5	6.2	4.1	6.6	3.2
7					7.5	9.2	7.5	3.5	6.2	4.1	6.5	2.5
8				5.0	7.6	9.6	7.3	3.5	6.1	4.1	6.4	2.5
9				6.9	7.5	9.7	7.0	3.5	5.9	4.0	6.2	3.2
10				7.4	7.2	9.8	6.8	3.7	5.8	4.0	6.1	4.2
11				7.5	6.9	9.9	6.5	3.9	5.7	4.0	6.0	4.6
12				8.1	6.7	9.7	6.2	4.0	5.7	4.1	6.0	4.4
13				9.8	6.5	9.9	6.0	4.1	5.7	4.1	5.9	Frozen.
14				10.5	6.2	10.0	5.9	3.8	5.6	4.3	5.8	
15				10.3	6.1	10.3	5.9	3.8	5.6	4.4	5.7	
16				10.4	6.0	10.5	6.0	3.8	5.6	4.6	5.6	
17				10.4	6.1	10.6	5.7	4.0	5.5	5.3	5.5	
18				10.4	6.1	10.8	5.4	4.0	5.3	5.8	5.4	
19				10.1	6.0	10.9	5.2	4.0	5.2	6.7	5.4	
20				9.5	5.9	10.9	5.1	4.3	5.1	7.5	5.3	
21				8.8	5.9	10.9	5.0	4.6	5.0	8.0	5.2	
22				8.0	5.9	11.0	5.0	5.8	5.0	8.4	5.1	
23				7.4	5.9	11.0	5.0	6.6	5.0	8.7	5.0	
24				7.0	5.8	10.9	4.8	8.0	5.0	8.8	5.0	
25				6.7	5.8	10.7	4.7	8.7	4.9	8.7	5.0	
26				6.5	5.8	10.3	4.6	8.8	4.9	8.6	5.0	
27				6.3	5.7	9.9	4.5	8.7	4.8	8.2	4.9	
28				6.1	5.8	9.5	4.3	8.5	4.8	8.0	4.9	
29				6.1	5.8	9.2	4.2	8.3	4.7	7.8	4.8	
30				6.2	5.7	8.8	4.1	8.0	4.5	7.6	4.8	
31					5.7		4.0	7.7		7.4		

DAILY RIVER STAGES.

*Mississippi River system—Mississippi River, Red Wing, Minn.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			Frozen.		8.5	7.7	5.0	2.5	1.5	0.3	0.1	
2					8.5	7.5	5.0	2.6	1.4	0.3	0.1	
3					9.1	7.1	4.9	2.6	1.4	0.2	0.1	
4					9.8	7.0	4.9	2.6	1.3	0.2	0.1	
5					9.9	6.8	4.8	2.7	1.3	0.2	0.2	
6					10.0	6.6	4.8	2.7	1.4	0.2	0.4	
7					9.7	7.1	4.6	2.8	1.4	0.2	0.7	
8					9.5	7.3	4.5	2.8	1.3	0.2	0.9	
9					9.0	7.1	4.3	2.6	1.2	0.2	1.2	
10					8.5	7.1	4.2	2.5	1.1	0.2	1.5	
11					8.5	6.9	4.0	2.3	1.0	0.1	1.7	
12					8.1	6.9	3.9	2.2	1.0	0.1	1.9	
13				2.2	8.5	6.8	3.7	2.1	0.9	0.1	2.1	
14				2.2	8.5	6.8	3.6	2.0	0.8	0.1	2.3	
15				4.3	8.3	6.8	3.4	2.0	0.7	0.1	2.5	
16				5.8	8.5	6.6	3.3	1.9	0.6	0.1	2.6	
17				6.7	8.7	6.6	3.2	1.8	0.5	0.1	2.9	
18				8.1	9.0	6.5	3.1	2.0	0.3	0.1	2.9	
19				9.2	9.7	6.4	3.0	2.1	0.2	0.1	2.8	
20				9.8	10.1	6.2	3.0	2.3	0.2	0.1	2.8	
21				10.1	10.3	6.0	3.0	2.4	0.2	0.1	2.9	
22				10.3	10.2	5.9	2.9	2.4	0.1	0.1	2.7	
23				10.4	10.3	5.9	2.9	2.3	0.1	0.1	2.4	
24				9.9	9.8	5.7	2.8	2.2	0.1	0.1	2.2	
25				9.5	9.8	5.6	2.7	2.1	0.2	0.1	2.0	
26				9.2	9.1	5.6	2.7	2.0	0.2	0.1	2.0	
27				8.9	8.8	5.4	2.6	2.0	0.2	0.1	2.0	
28				8.6	8.5	5.3	2.5	1.9	0.2	0.1	1.9	
29				8.6	8.4	5.2	2.5	1.9	0.3	0.1	2.1	
30				8.5	8.0	5.2	2.5	1.7	0.3	0.1	2.2	
31					7.8		2.4	1.6		0.1		

1897.

1				9.9	8.7	4.5	5.4	8.0	3.0	3.1	2.7	
2				10.7	8.5	4.5	5.7	8.1	3.0	3.1	2.7	
3				11.8	8.5	4.2	6.0	7.7	3.0	3.0	2.7	
4				12.8	8.2	4.2	6.1	7.5	3.0	3.0	2.6	
5				13.1	8.1	4.3	6.2	7.2	2.8	2.9	2.5	
6				13.5	7.6	5.0	6.3	7.1	2.8	2.8	2.5	
7				13.7	7.2	5.5	7.4	6.8	2.8	2.8	2.5	
8				13.7	7.0	5.9	8.2	6.7	2.7	2.8	2.5	
9				13.7	6.8	6.3	9.3	6.6	2.7	2.8	2.5	
10				13.5	6.4	6.2	10.0	6.5	2.7	2.8	2.5	
11				13.3	6.0	6.1	10.3	6.4	3.0	2.8	2.4	
12			3.0	13.1	5.9	6.0	10.5	6.3	3.1	2.8	2.4	
13			3.2	13.0	5.6	5.9	10.5	6.1	3.1	2.8	2.4	
14			3.3	12.5	5.5	5.9	10.5	5.8	3.1	2.7	2.4	
15			3.4	12.5	5.4	5.7	10.3	5.8	3.1	2.7	2.4	
16			3.5	12.3	5.3	5.6	10.2	5.4	3.1	2.7	2.4	
17			3.6	11.8	5.3	5.4	9.7	4.4	3.2	2.7	2.4	
18			3.7	11.5	5.2	5.5	9.0	4.0	3.2	2.7	2.4	
19			3.9	11.4	5.1	5.5	8.9	3.8	3.3	2.7	2.4	
20			4.0	11.2	5.0	6.0	8.6	3.7	3.3	2.7	2.4	
21			4.5	11.1	5.0	6.5	8.2	3.6	3.3	2.7	2.4	
22			4.6	10.7	5.1	6.8	7.8	3.4	3.3	2.7	2.4	
23			5.2	10.6	5.2	7.0	7.5	3.3	3.3	2.7	2.3	
24			6.0	10.3	5.4	7.0	7.4	3.3	3.3	3.0	2.3	
25			6.2	10.1	5.5	6.6	7.4	3.3	3.3	3.0	2.3	
26			6.6	9.8	5.7	6.4	7.3	3.2	3.3	3.0	2.3	
27			7.2	9.6	5.7	6.0	7.1	3.2	3.3	3.1	2.3	
28			7.8	9.4	5.6	5.8	7.1	3.2	3.2	3.1	2.3	
29			9.0	9.1	5.5	5.5	7.5	3.1	3.1	3.0	2.3	
30			9.0	8.9	5.3	5.4	7.8	3.1	3.1	2.9	2.3	
31			9.2		5.1		7.9	3.0		2.8		

DAILY RIVER STAGES.

133

Mississippi River system—Mississippi River, Red Wing, Minn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	2.7	3.0	4.9	4.4	2.0	1.2	1.2	2.4	-----
2	-----	-----	-----	3.0	3.0	5.0	4.2	1.9	1.2	1.2	2.4	-----
3	-----	-----	-----	3.2	3.0	5.0	4.1	1.8	1.2	1.2	2.4	-----
4	-----	-----	-----	3.2	3.0	5.0	3.9	1.8	1.2	1.2	2.4	-----
5	-----	-----	-----	3.2	3.0	5.5	3.9	1.8	1.2	1.2	2.4	-----
6	-----	-----	-----	3.3	3.0	6.3	3.9	1.8	1.2	1.2	2.2	-----
7	-----	-----	-----	3.1	3.0	7.3	3.9	1.8	1.2	1.2	2.1	-----
8	-----	-----	2.0	3.2	3.2	8.7	3.8	1.8	1.2	1.2	2.1	-----
9	-----	-----	2.0	3.0	3.4	9.5	3.8	1.8	1.2	1.2	2.1	-----
10	-----	-----	2.0	2.8	3.2	10.0	3.9	1.8	1.2	1.2	2.1	-----
11	-----	-----	2.0	2.8	3.1	10.1	4.0	1.8	1.2	1.2	2.1	-----
12	-----	-----	2.0	2.7	3.0	10.0	4.0	1.8	1.2	1.2	2.1	-----
13	-----	-----	2.0	2.6	3.0	9.7	4.0	1.8	1.2	1.2	1.8	-----
14	-----	-----	2.0	2.6	3.0	9.3	4.2	1.6	1.2	1.3	1.5	-----
15	-----	-----	2.0	2.6	2.9	8.9	4.1	1.5	1.2	1.3	1.5	-----
16	-----	-----	2.0	2.8	3.0	8.5	4.1	1.5	1.2	1.3	1.5	-----
17	-----	-----	2.1	3.0	3.0	8.1	3.9	1.5	1.2	1.4	1.5	-----
18	-----	-----	2.1	3.0	3.0	7.8	4.0	1.5	1.2	2.0	1.5	-----
19	-----	-----	2.1	3.1	2.9	7.4	3.8	1.5	1.2	2.2	1.5	-----
20	-----	-----	2.1	3.1	3.1	7.2	3.5	1.5	1.2	2.2	1.5	-----
21	-----	-----	2.1	3.0	3.2	6.8	3.3	1.5	1.2	2.0	1.4	-----
22	-----	-----	2.2	3.0	3.2	6.4	3.1	1.5	1.2	2.2	1.4	-----
23	-----	-----	2.2	3.0	3.2	6.1	3.0	1.5	1.2	2.5	1.4	-----
24	-----	-----	2.2	3.2	3.2	5.8	2.9	1.5	1.2	2.7	1.4	-----
25	-----	-----	2.2	3.2	3.3	5.4	2.8	1.5	1.2	2.7	1.4	-----
26	-----	-----	2.2	3.2	3.4	5.1	2.7	1.5	1.2	2.7	1.4	-----
27	-----	-----	2.2	3.2	3.5	4.9	2.6	1.5	1.2	2.7	1.4	-----
28	-----	-----	2.2	3.1	3.7	4.7	2.4	1.5	1.2	2.7	1.4	-----
29	-----	-----	2.2	3.0	4.0	4.4	2.3	1.5	1.2	2.7	1.4	-----
30	-----	-----	2.2	3.2	4.3	4.3	2.2	1.5	1.2	2.7	1.4	-----
31	-----	-----	2.2	-----	4.7	-----	2.1	1.2	-----	2.7	-----	-----

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	Frozen.	6.1	5.3	7.2	2.5	5.3	2.1	6.4	2.4
2	-----	-----	-----	-----	6.6	5.3	7.0	2.5	5.3	2.0	6.1	2.4
3	-----	-----	-----	-----	7.0	5.5	6.8	2.5	5.2	2.0	5.8	2.0
4	-----	-----	-----	-----	7.2	6.0	6.5	2.4	5.2	2.0	5.5	2.0
5	-----	-----	-----	-----	7.3	6.5	6.2	2.4	5.2	2.0	5.2	2.0
6	-----	-----	-----	-----	7.4	6.7	6.1	2.4	4.9	1.8	5.2	2.0
7	-----	-----	-----	-----	7.4	7.3	5.9	2.4	4.4	1.8	5.0	2.0
8	-----	-----	-----	-----	7.4	7.6	5.7	2.4	4.1	1.8	4.7	2.0
9	-----	-----	-----	-----	7.4	7.7	5.4	2.2	4.1	1.8	4.5	2.0
10	-----	-----	-----	4.6	7.1	7.7	5.2	2.2	4.1	1.8	4.2	2.0
11	-----	-----	-----	4.4	6.9	7.9	5.0	2.2	4.1	1.8	4.2	2.0
12	-----	-----	-----	5.4	6.6	8.2	4.8	2.2	4.1	1.8	4.2	2.0
13	-----	-----	-----	6.0	6.3	8.4	4.5	2.0	4.1	1.8	4.2	2.0
14	-----	-----	-----	6.5	6.0	8.7	4.5	2.0	4.4	1.8	4.0	2.0
15	-----	-----	-----	7.0	6.0	8.9	4.2	2.0	4.5	1.8	3.8	2.0
16	-----	-----	-----	7.7	5.8	9.2	4.2	2.0	4.3	1.8	3.6	2.0
17	-----	-----	-----	8.0	5.3	9.5	4.2	2.0	4.1	1.8	3.4	2.0
18	-----	-----	-----	8.2	5.2	9.5	4.0	2.0	4.0	1.8	3.2	2.0
19	-----	-----	-----	8.2	5.3	9.4	4.0	2.0	3.8	1.8	3.0	2.0
20	-----	-----	-----	8.2	5.6	9.2	3.7	2.0	3.6	1.8	3.0	2.0
21	-----	-----	-----	8.0	5.8	9.0	3.7	2.1	3.4	3.0	3.0	2.0
22	-----	-----	-----	7.9	6.0	8.7	3.5	2.0	3.3	4.5	3.0	2.0
23	-----	-----	-----	7.5	6.0	8.5	3.2	2.0	3.3	6.1	2.8	2.0
24	-----	-----	-----	7.3	5.9	8.3	3.2	2.0	3.0	6.5	2.6	2.0
25	-----	-----	-----	6.9	5.8	8.2	3.0	2.0	3.0	6.7	2.6	2.0
26	-----	-----	-----	6.8	5.6	8.2	3.0	3.7	2.8	6.8	2.4	2.0
27	-----	-----	-----	6.3	5.5	8.0	2.8	4.2	2.7	6.9	2.4	2.0
28	-----	-----	-----	6.0	5.4	8.0	2.7	4.6	2.5	6.9	2.4	2.0
29	-----	-----	-----	5.7	5.4	7.7	2.7	4.9	2.3	6.9	2.4	Frozen.
30	-----	-----	-----	5.9	5.6	7.4	2.6	5.2	2.5	6.9	2.4	-----
31	-----	-----	-----	-----	5.4	-----	2.5	5.3	-----	6.7	-----	-----

DAILY RIVER STAGES.

*Mississippi River system—Mississippi River, Reeds Landing, Minn.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			-0.4	0.0	7.7	7.0	4.6	1.6	0.7	0.9	1.1	7.0
2			-0.4	0.1	7.9	6.7	4.4	1.6	0.8	0.8	1.3	6.5
3			-0.3	0.1	8.3	6.5	4.2	1.5	0.8	0.8	1.7	6.5
4			-0.5	0.1	8.6	6.3	4.3	1.4	0.8	0.7	2.1	6.5
5			-0.5	0.3	8.9	6.2	4.1	1.5	0.9	0.8	2.3	6.5
6			-0.5	0.4	9.0	6.0	3.8	1.6	0.9	0.8	2.5	6.6
7			-0.5	0.5	8.9	6.4	3.5	1.5	0.8	0.8	2.7	6.5
8			-0.5	0.6	8.6	6.7	3.4	1.4	0.7	0.7	2.8	6.2
9			-0.6	0.8	8.3	6.6	3.4	1.4	0.7	0.8	2.7	5.6
10			-0.6	1.1	8.0	6.6	3.3	1.4	0.8	0.7	2.8	5.7
11			-0.6	1.4	7.7	6.6	3.4	1.4	1.0	0.6	2.9	5.4
12			-0.7	1.7	7.4	6.5	3.3	1.6	0.9	0.7	2.8	5.2
13			-0.8	2.1	7.4	6.4	3.0	1.7	0.9	0.6	2.6	5.0
14			-0.8	2.6	7.6	6.3	2.8	1.8	1.1	0.6	2.4	4.8
15			-0.8	3.5	7.7	6.2	2.9	1.9	0.9	0.7	2.2	4.5
16			-0.9	4.9	7.6	6.1	2.7	2.0	1.0	0.7	2.1	4.2
17			-0.9	6.1	8.0	6.0	2.5	1.9	1.0	0.8	2.0	4.0
18			-0.9	7.1	8.4	5.9	2.7	1.8	0.9	0.7	2.1	3.8
19			-0.8	8.1	8.8	5.9	2.7	1.8	1.0	0.7	2.1	3.6
20			-0.9	8.9	9.0	5.8	2.8	1.7	0.8	0.7	1.9	3.4
21			-0.9	9.4	9.2	5.6	2.6	1.7	0.9	0.7	1.8	3.1
22			-0.9	9.5	9.3	5.6	2.7	1.6	1.0	0.8	1.6	2.9
23			-0.9	9.5	9.2	5.3	2.5	1.5	1.0	0.8	1.4	2.6
24			-0.9	9.3	8.8	5.1	2.3	1.4	1.0	0.7	1.2	2.4
25			-0.8	8.9	8.5	5.1	2.1	1.2	1.1	0.7	1.1	2.4
26			-0.8	8.5	8.3	5.0	2.0	1.1	1.0	0.7	1.3	2.3
27			-0.8	8.2	7.9	5.0	2.0	1.0	1.0	0.7	1.8	2.1
28			-0.7	7.9	7.8	5.1	1.9	1.0	0.9	0.8	4.9	2.0
29			-0.5	7.8	7.4	5.2	1.8	0.9	0.9	0.9	4.4	1.9
30			-0.4	7.8	7.3	4.8	1.8	0.9	1.0	1.0	6.5	1.9
31			-0.3		7.1		1.6	0.9		1.2		1.9

1897.

1			0.8	8.9	8.0	4.5	5.4	7.4	2.9	2.9	2.6	0.6
2			0.7	9.6	7.9	4.3	5.5	7.4	2.9	2.8	2.6	0.4
3			0.7	10.4	7.8	4.4	5.7	7.3	2.9	2.8	2.4	0.3
4			0.6	11.1	7.5	4.3	5.7	7.0	2.8	2.7	2.4	0.2
5			0.6	11.5	7.3	4.7	5.7	6.8	2.8	2.6	2.4	0.3
6			0.5	11.9	7.0	5.0	5.7	6.6	2.7	2.6	2.2	0.3
7			0.5	12.2	6.7	5.6	6.1	6.3	2.6	2.5	2.1	0.4
8			0.5	12.3	6.4	5.8	6.8	6.2	2.5	2.5	2.0	0.3
9			0.5	12.2	6.3	5.9	7.5	6.0	2.5	2.6	2.0	0.3
10			0.5	11.9	6.0	5.9	8.3	5.8	2.7	2.5	1.9	0.2
11			0.4	11.7	5.8	5.9	8.8	5.6	3.0	2.6	2.2	0.4
12			0.4	11.4	5.6	5.8	9.2	5.4	3.0	2.6	1.9	0.4
13			0.4	11.4	5.4	5.8	9.2	5.1	3.0	2.4	1.8	0.5
14			0.5	11.1	5.3	5.7	9.2	5.0	2.9	2.3	1.7	0.6
15			0.4	10.9	5.2	5.6	9.1	4.8	3.1	2.3	1.8	0.7
16			0.3	10.7	5.1	5.4	8.9	4.6	3.3	2.4	1.8	0.8
17			0.4	10.4	5.1	5.3	8.7	4.3	3.1	2.3	1.8	1.0
18			0.4	10.2	5.0	5.2	8.3	4.2	3.1	2.2	1.7	0.9
19			0.6	10.2	4.9	5.4	8.0	4.1	3.3	2.2	1.7	0.9
20			1.4	10.0	4.9	5.9	7.6	4.0	3.2	2.5	1.6	0.8
21			2.5	9.8	4.8	6.3	7.5	3.9	3.2	2.6	1.6	0.9
22			3.1	9.7	4.9	6.7	7.2	3.8	3.4	2.6	1.5	1.0
23			3.7	9.5	5.4	6.7	6.8	3.7	3.4	2.7	1.5	0.9
24			4.3	9.3	5.5	6.6	6.1	3.6	3.3	2.9	1.4	0.8
25			4.8	9.1	5.5	6.4	6.4	3.5	3.3	3.0	1.4	0.9
26			5.2	8.9	5.4	6.1	6.6	3.4	3.3	3.1	1.3	0.9
27			5.5	8.6	5.5	5.9	6.5	3.3	3.1	3.1	1.2	0.8
28			6.0	8.4	5.4	5.6	6.5	3.3	3.0	3.1	1.2	0.8
29			6.6	8.3	5.3	5.5	6.8	3.2	3.0	3.0	1.1	0.8
30			7.5	8.1	5.4	5.4	7.1	3.0	3.0	2.9	1.0	0.7
31			8.2		5.0		7.2	2.9		2.8		0.6

DAILY RIVER STAGES.

135

Mississippi River system—Mississippi River, Reeds Landing, Minn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			0.3	3.0	3.1	4.7	4.1	2.0	0.9	0.3	2.1	—0.8
2			0.3	3.4	3.1	4.9	4.1	1.9	0.9	0.4	2.1	—0.8
3			0.2	3.3	3.1	4.8	4.1	1.8	1.0	0.5	2.0	—0.8
4			0.2	3.3	3.0	4.7	4.0	1.7	1.0	0.5	1.9	—0.8
5			0.2	3.2	3.1	4.9	3.9	1.7	0.9	0.6	1.9	—0.8
6			0.3	3.2	3.2	5.5	3.8	1.7	0.9	0.7	1.8	—0.9
7			0.5	3.2	3.1	6.1	3.7	1.7	1.0	0.7	1.7	—0.8
8			0.8	3.1	3.2	7.0	3.6	1.7	0.8	0.6	1.7	—0.9
9			1.0	3.1	3.4	8.0	3.7	1.7	0.8	0.6	1.6	0.0
10			1.2	2.9	3.2	8.4	3.7	1.7	0.8	0.7	1.5	0.1
11			1.3	2.8	3.2	9.0	3.9	1.0	0.7	0.9	1.5	0.1
12			1.4	2.7	3.1	8.9	3.9	1.5	0.7	0.9	1.5	0.1
13			1.5	2.7	3.0	8.8	3.8	1.4	0.6	1.0	1.3	0.2
14			1.6	2.9	2.9	8.5	3.9	1.3	0.7	1.0	1.2	0.2
15			2.0	2.8	2.9	8.1	4.0	1.4	0.8	0.9	1.0	0.2
16			2.3	2.8	3.0	7.8	4.0	1.3	0.8	1.0	0.9	0.3
17			2.4	2.9	2.9	7.5	3.9	1.3	0.9	1.4	0.9	0.3
18			2.4	2.8	2.7	7.3	3.8	1.2	0.9	1.6	0.8	0.4
19			2.5	3.2	2.8	7.0	3.7	1.2	0.8	1.7	0.8	0.3
20			2.5	3.3	2.8	6.8	3.6	1.3	0.8	1.8	0.8	0.4
21			2.5	3.1	2.9	6.3	3.6	1.1	0.6	1.9	1.0	0.4
22			2.7	3.1	3.1	6.0	3.0	1.1	0.6	2.0	1.2	0.3
23			2.8	3.1	3.1	5.7	2.9	1.1	0.6	2.2	1.3	0.3
24			2.7	3.2	3.1	5.5	2.8	1.1	0.6	2.3	0.9	0.4
25			2.7	3.3	3.1	5.3	2.8	1.0	0.5	2.5	0.8	0.4
26			2.7	3.3	3.2	5.1	2.8	1.0	0.5	2.7	0.8	0.4
27			2.8	3.2	3.3	5.0	2.5	1.0	0.5	2.7	0.4	0.4
28			2.9	3.3	3.6	4.6	2.4	1.0	0.3	2.6	0.2	0.3
29			2.9	3.2	3.6	4.4	2.2	1.0	0.3	2.5	—0.9	0.2
30			2.9	3.1	4.2	4.2	2.2	1.0	0.4	2.4	—0.8	0.2
31			2.9		4.5		2.0	1.0		2.3		0.3

1899.

1	0.3	—0.4	—0.1	—0.5	5.8	5.0	6.5	2.2	4.6	2.0	6.1	2.7
2	0.2	—0.5	—0.1	—0.5	6.2	4.9	6.3	2.1	4.7	1.8	5.8	2.6
3	0.1	—0.5	—0.1	—0.5	6.4	5.0	6.3	2.1	4.7	1.8	5.4	2.5
4	0.0	—0.5	—0.1	—0.5	6.8	5.3	6.0	2.2	4.4	1.7	5.1	2.5
5	0.0	—0.5	—0.2	—0.5	6.9	5.9	5.8	2.2	4.4	1.7	4.9	2.2
6	0.1	—0.5	—0.2	—0.2	7.0	6.4	5.5	2.1	4.0	1.7	4.7	2.0
7	0.1	—0.5	—0.2	0.2	7.0	6.8	5.4	2.0	4.0	1.7	4.4	2.0
8	0.1	—0.6	—0.3	0.6	7.1	7.1	5.2	1.9	3.9	1.7	4.3	1.7
9	0.0	—0.6	—0.3	1.5	7.0	7.1	5.0	1.8	3.8	1.6	4.1	1.6
10	0.0	—0.6	—0.2	2.7	6.7	7.2	5.0	1.8	3.7	1.6	3.9	1.6
11	0.0	—0.6	—0.2	3.9	6.5	7.3	4.7	1.7	3.7	1.6	3.9	1.7
12	—0.1	—0.6	—0.1	4.9	6.2	7.5	4.5	1.8	3.8	1.4	3.8	1.8
13	—0.1	—0.6	—0.1	5.6	6.0	7.7	4.5	1.7	3.8	1.5	3.7	1.7
14	—0.2	—0.5	—0.3	6.0	5.8	7.9	4.4	1.6	3.7	1.5	3.6	1.6
15	—0.3	—0.6	—0.3	6.6	5.6	8.2	4.3	1.5	3.7	1.4	3.5	1.5
16	—0.3	—0.6	—0.3	7.1	5.4	8.5	4.1	1.4	3.8	1.6	3.5	1.4
17	—0.2	—0.6	—0.4	7.5	5.3	8.8	4.1	1.3	3.7	1.6	3.5	1.3
18	—0.2	—0.6	—0.5	7.7	5.0	8.9	3.9	1.2	3.7	1.8	3.2	1.2
19	—0.3	—0.6	—0.5	7.7	5.0	8.7	3.6	1.5	3.5	2.0	3.2	1.2
20	—0.4	—0.5	—0.5	7.6	5.3	8.4	3.4	1.6	3.3	2.7	3.2	1.1
21	—0.5	—0.4	—0.5	7.5	5.6	8.1	3.2	1.8	3.1	3.7	3.3	1.1
22	—0.5	—0.4	—0.5	7.3	5.9	8.0	3.1	1.9	2.9	4.6	3.2	0.9
23	—0.5	—0.4	—0.5	7.0	5.8	7.8	3.0	2.0	2.9	5.0	3.2	0.9
24	—0.4	—0.4	—0.5	6.8	5.7	7.6	2.9	2.2	2.8	5.4	3.2	0.7
25	—0.4	—0.5	—0.5	6.6	5.5	7.4	2.8	2.3	2.7	5.8	3.2	0.7
26	—0.3	—0.5	—0.5	6.3	5.3	7.4	2.7	2.9	2.6	6.0	3.0	1.0
27	—0.4	—0.5	—0.5	6.0	5.2	7.2	2.6	3.4	2.5	6.0	3.0	0.8
28	—0.4	—0.4	—0.5	5.8	5.0	7.2	2.5	3.7	2.5	6.2	2.9	0.8
29	—0.4		—0.5	5.6	5.3	6.7	2.6	3.9	2.3	6.3	2.8	0.7
30	—0.4		—0.5	5.4	5.2	6.7	2.5	4.3	2.2	6.3	2.8	0.7
31	—0.4		—0.4		5.1		2.4	4.4		6.1		0.7

DAILY RIVER STAGES.

Mississippi River system—Mississippi River, La Crosse, Wis.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	0.8	9.8	8.9	6.4	2.3	1.2	1.5	2.2	3.2
2				0.9	9.8	8.9	6.2	2.3	1.2	1.5	2.4	6.0
3				1.3	9.7	8.5	6.0	2.3	1.1	1.4	2.7	7.0
4				1.4	9.7	8.4	5.8	2.3	1.2	1.3	3.0	7.5
5				1.5	9.8	8.3	5.5	2.3	1.2	1.3	3.3	Frozen.
6				1.5	9.8	8.1	5.4	2.3	1.3	1.3	3.6	
7				1.6	10.2	8.1	5.1	2.3	1.3	1.2	3.7	
8				1.5	10.2	7.9	4.8	2.3	1.2	1.2	3.7	
9				1.5	10.4	7.9	4.5	2.2	1.1	1.2	3.7	
10				1.8	10.2	8.0	4.3	2.1	1.1	1.2	4.1	
11				2.0	10.0	8.1	4.2	2.1	1.2	1.2	4.0	
12				2.2	9.7	8.2	4.1	2.0	1.3	1.2	3.9	
13				2.5	9.4	8.2	4.1	2.0	1.3	1.2	3.8	
14				2.8	9.3	8.1	4.0	2.1	1.4	1.2	3.7	
15				3.1	9.3	8.0	3.9	2.2	1.4	1.2	3.5	
16				3.8	9.2	7.9	3.9	2.2	1.4	1.2	3.2	
17				4.9	9.4	7.9	4.1	2.5	1.4	1.2	3.3	6.1
18				5.9	9.5	7.8	4.3	2.5	1.6	1.2	3.3	5.9
19				6.8	9.7	7.7	4.2	2.4	1.6	1.2	3.2	5.8
20				7.7	10.0	7.6	4.0	2.3	1.6	1.3	3.1	6.0
21				8.5	10.4	7.5	3.8	2.3	1.6	1.3	Frozen.	
22				9.4	10.5	7.4	3.8	2.2	1.6	1.3		
23			1.0	10.2	10.6	7.2	3.5	2.2	1.5	1.4		
24			0.6	10.7	10.7	7.1	3.5	2.1	1.5	1.4		
25			0.6	10.8	10.7	7.1	3.4	1.9	1.7	1.4		
26			0.7	10.8	10.5	7.0	3.3	1.8	1.7	1.4	2.7	
27			0.8	10.5	10.3	6.8	3.0	1.7	1.7	1.4	3.2	
28			0.5	10.3	10.0	6.7	2.9	1.7	1.6	1.4		
29			0.8	10.1	9.7	6.5	2.8	1.5	1.5	1.3		
30			0.7	9.9	9.5	6.4	2.6	1.4	1.5	2.0	1.9	
31			0.7		9.2		2.5	1.4		2.1		

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	10.5	9.8	6.7	7.4	8.5	4.2	4.0	3.8	Frozen.
2				10.6	9.6	6.5	7.3	8.7	4.2	3.9	3.7	
3				11.1	9.5	6.3	7.5	8.9	4.2	3.8	3.7	
4				11.5	9.4	5.9	7.7	9.0	4.0	3.8	3.6	
5				12.1	9.4	5.8	7.7	9.0	4.0	3.7	3.6	
6				12.5	9.2	5.9	7.7	8.9	3.8	3.7	3.5	
7				12.9	9.0	6.1	7.5	8.7	3.7	3.7	3.5	
8				13.3	8.7	6.5	7.5	8.5	3.6	3.6	3.1	
9				13.5	8.4	6.9	7.5	8.3	3.5	3.5	3.1	
10				13.7	8.2	7.2	7.8	8.0	3.4	3.5	2.7	
11				13.6	8.0	7.4	8.2	7.7	3.5	3.4	2.7	
12				13.4	7.7	7.4	8.7	7.5	3.6	3.4	2.6	
13				13.3	7.5	7.4	9.3	7.2	3.8	3.5	2.6	
14				13.0	7.3	7.4	9.8	7.0	3.9	3.4	2.5	
15				12.8	7.1	7.3	10.2	6.7	3.9	3.4	2.5	
16				12.7	6.8	7.3	10.4	6.4	4.0	3.3	2.4	
17				12.4	6.6	7.2	10.5	6.2	4.0	3.3	2.6	
18			3.3	12.2	6.3	7.0	10.5	5.9	4.1	3.3	2.9	
19			3.8	12.0	6.4	7.0	10.3	5.6	4.1	3.3	2.9	
20			5.6	11.9	6.4	7.1	10.1	5.4	4.1	3.3	2.9	
21			7.7	11.7	6.4	7.2	9.9	5.2	4.1	3.3	2.7	
22			8.3	11.5	6.4	7.5	9.7	5.0	4.1	3.2	2.6	
23			8.5	11.3	6.5	7.8	9.4	4.9	4.2	3.5	2.6	
24			8.8	11.1	6.8	8.0	9.1	4.8	4.3	3.5	2.5	
25			9.1	10.9	7.1	8.1	8.9	4.7	4.3	3.7	2.5	
26			9.2	10.7	7.1	8.1	8.5	4.5	4.3	3.8	2.4	
27			9.2	10.5	7.3	8.1	8.4	4.4	4.2	4.0	2.4	
28			8.9	10.3	7.3	7.9	8.3	4.3	4.1	4.1	2.3	
29			8.8	10.1	7.2	7.8	8.1	4.3	4.1	4.1	Frozen.	
30			10.1	10.0	7.1	7.5	8.2	4.2	4.1	4.0		
31			11.2		7.1		8.3	4.1		3.9		

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, La Crosse, Wis.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	4.9	4.7	5.0	5.9	3.2	1.8	1.4	3.7	Frozen.
2				5.1	4.7	5.5	5.7	3.1	1.8	1.4	3.6	
3				5.1	4.5	5.7	5.7	3.0	1.8	1.4	3.5	
4				5.0	4.4	5.9	5.5	2.9	1.8	1.4	3.5	
5				5.0	4.4	6.0	5.4	2.9	1.8	1.6	3.5	
6				4.8	4.3	6.0	5.1	2.8	1.8	1.6	3.4	
7				4.7	4.3	6.1	5.0	2.8	1.8	1.6	3.4	
8				4.6	4.3	6.5	5.0	2.7	1.7	1.7	3.2	
9				4.7	4.3	6.9	4.9	2.6	1.6	1.7	3.2	
10				4.5	4.3	7.4	4.9	2.5	1.5	1.5	3.0	
11				4.4	4.4	8.0	4.8	2.4	1.5	1.6	3.0	
12				4.3	4.3	8.8	4.8	2.4	1.4	1.7	2.9	
13				4.2	4.2	9.4	4.9	2.3	1.4	1.7	2.7	
14				4.3	4.1	9.8	4.9	2.2	1.4	1.9	2.7	
15			5.3	4.3	4.1	9.9	4.9	2.2	1.3	2.0	2.7	
16			4.1	4.2	4.0	9.8	5.0	2.3	1.3	2.0	2.6	
17			3.8	4.4	4.0	9.6	5.0	2.3	1.4	2.1	2.6	
18			3.8	4.5	3.9	9.5	4.9	2.3	1.6	2.5	2.5	
19			4.0	4.6	3.9	9.2	4.9	2.2	1.6	2.8	2.5	
20			4.1	4.7	3.8	9.0	4.9	2.0	1.6	2.8	2.4	
21			4.2	4.7	3.8	8.7	4.6	2.0	1.6	2.8	2.4	
22			4.3	4.7	4.0	8.4	4.4	2.0	1.6	2.8	2.4	
23			4.4	4.7	4.0	8.1	4.2	2.0	1.5	3.2	2.4	
24			4.4	4.7	4.0	7.7	4.2	2.0	1.6	3.3	Frozen.	
25			4.5	4.9	4.1	7.5	3.7	1.9	1.4	3.4		
26			4.5	5.0	4.1	7.2	3.7	1.8	1.4	3.4		
27			4.5	5.1	4.1	7.0	3.7	1.8	1.3	3.5		
28			4.5	5.1	4.2	6.6	3.5	1.8	1.3	3.5		
29			4.5	4.9	4.4	6.3	3.3	1.8	1.3	3.6		
30			4.5	4.8	4.5	6.1	3.2	1.8	1.4	3.7		
31			4.7		4.7		3.1	1.8		3.7		

1899.

1	Frozen.	Frozen.	Frozen.	Frozen.	7.9	7.1	8.9	3.8	5.5	3.5	7.7	4.0
2					7.7	7.1	8.7	3.7	5.7	3.4	7.6	3.9
3					7.8	7.1	8.5	3.7	5.9	3.3	7.5	4.0
4					8.1	7.2	8.3	3.7	5.9	3.0	7.3	4.0
5					8.2	7.3	8.1	3.7	5.9	2.9	7.1	3.9
6					8.5	7.4	7.9	3.7	5.8	2.9	6.8	3.8
7					8.7	7.9	7.7	3.7	5.7	2.8	6.5	3.6
8				6.9	8.8	8.2	7.5	3.5	5.5	2.8	6.3	3.4
9				7.5	8.8	8.5	7.2	3.5	5.5	2.8	6.0	3.2
10				7.9	8.8	8.8	7.0	3.1	5.4	2.8	5.8	3.2
11				8.1	8.8	8.9	6.9	3.1	5.3	2.8	5.6	3.2
12				8.0	8.6	10.2	6.7	3.2	5.2	2.8	5.5	3.2
13				8.7	8.4	10.8	6.6	3.2	5.1	2.7	5.3	3.2
14				8.5	8.2	11.1	6.5	3.0	5.1	2.5	5.2	3.2
15				8.4	8.0	11.2	6.5	2.9	5.1	2.6	5.2	3.2
16				8.6	7.8	11.6	6.2	2.8	5.1	2.7	5.2	3.2
17				8.8	7.6	11.7	6.0	2.7	5.1	2.7	4.8	3.3
18				9.1	7.4	11.8	6.0	2.6	5.1	2.7	4.7	4.4
19				9.4	7.1	11.6	5.8	2.6	5.0	2.7	4.7	5.8
20				9.5	6.9	11.4	5.6	2.7	5.0	3.0	4.5	Frozen.
21				9.5	7.0	11.0	5.3	2.8	5.0	3.3	4.5	
22				9.4	7.0	10.7	5.0	2.9	5.0	4.0	4.4	
23				9.3	7.2	10.4	4.8	3.0	4.7	4.8	4.4	
24				9.0	7.3	10.1	4.6	3.1	4.3	5.5	4.4	
25				8.9	7.3	9.8	4.4	3.3	4.1	6.0	4.4	
26				8.8	7.3	9.6	4.4	3.5	4.0	6.4	4.4	
27				8.5	7.4	9.4	4.2	3.8	3.9	6.7	4.3	
28				8.4	7.2	9.3	4.1	4.2	3.9	6.9	4.2	
29				8.1	7.2	9.2	4.0	4.6	3.8	7.2	4.2	
30				8.1	7.1	9.0	3.9	4.9	3.8	7.4	4.0	
31					7.0		3.9	5.2		7.6		

DAILY RIVER STAGES.

*Mississippi River system—Mississippi River, North McGregor, Iowa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			3.0	1.0	12.1	12.0	6.9	2.2	1.0	1.1	1.8	2.1
2			3.0	1.1	11.9	11.6	6.6	2.1	1.0	1.0	2.0	2.5
3			3.0	1.1	11.6	11.0	6.4	2.0	0.9	1.0	2.0	3.0
4			2.8	1.1	11.4	10.8	6.1	1.9	0.8	1.0	2.1	4.0
5			2.8	1.1	11.2	10.2	5.8	1.9	0.8	1.1	2.3	4.9
6			2.7	1.2	11.0	10.0	5.6	1.9	0.8	1.0	2.5	5.7
7			2.5	1.2	10.9	9.8	5.4	1.9	0.8	0.9	2.8	6.2
8			2.2	1.3	10.9	9.8	5.1	1.9	0.7	0.8	2.7	6.7
9			2.1	1.4	11.1	9.5	4.8	1.9	0.8	0.8	2.6	7.1
10			2.1	1.4	11.3	9.3	4.6	1.9	0.8	0.8	2.8	7.3
11			2.1	1.6	11.4	9.0	4.3	1.9	0.9	0.7	3.3	7.6
12			2.0	1.6	11.3	8.7	4.0	1.8	0.9	0.7	3.7	7.7
13			1.9	1.6	11.1	8.4	3.8	1.8	0.9	0.7	4.0	7.6
14			1.8	2.0	11.0	8.5	3.7	1.7	0.9	0.8	3.8	7.5
15			1.6	2.5	10.8	8.6	3.5	1.7	1.1	0.8	3.7	7.3
16			1.5	3.0	10.7	8.6	3.5	1.7	1.1	0.7	3.6	7.2
17			1.5	3.3	10.7	8.5	3.4	1.7	1.4	0.6	3.4	7.0
18			1.5	3.7	10.6	8.4	3.5	1.8	1.5	0.6	3.2	6.9
19			1.4	4.2	10.6	8.4	3.5	2.0	1.5	0.7	3.1	6.8
20			1.4	4.5	10.8	8.3	3.6	2.2	1.4	0.7	3.0	6.7
21			1.3	5.4	11.0	8.0	3.6	2.1	1.4	0.7	2.9	6.5
22			1.2	7.1	11.1	8.0	3.6	2.0	1.4	0.8	2.5	6.3
23			1.1	7.9	11.3	7.9	3.4	2.2	1.3	0.8	2.3	6.0
24			1.1	8.8	11.5	7.9	3.3	2.5	1.2	0.8	2.5	5.7
25			1.4	9.9	12.4	8.1	3.2	2.1	1.2	0.9	2.6	5.5
26			1.2	10.8	12.9	7.9	3.0	1.9	1.2	0.9	3.2	5.3
27			0.8	11.4	12.9	7.8	2.9	1.5	1.2	0.9	3.5	5.2
28			0.7	11.9	13.0	7.6	2.8	1.5	1.2	0.9	3.3	5.0
29			0.7	12.3	13.1	7.4	2.6	1.3	1.2	1.0	2.7	4.9
30			0.7	12.3	12.7	7.2	2.5	1.2	1.1	1.3	2.0	4.7
31			0.8		12.3		2.3	1.1		1.5		4.5

1897.

1			3.4	11.1	12.4	7.7	8.9	8.7	4.0	3.3	3.4	2.2
2			3.1	11.8	12.0	7.5	8.8	8.6	4.1	3.3	3.3	2.3
3			3.0	12.2	11.8	7.4	8.6	8.6	4.0	3.2	3.2	2.2
4			2.9	12.6	11.5	7.3	8.6	8.8	3.8	3.1	3.2	1.8
5			2.9	13.1	11.2	6.9	8.5	9.0	3.7	3.0	3.0	1.9
6			2.9	13.7	11.0	6.6	8.5	9.2	3.5	3.0	3.0	1.9
7			2.9	14.4	10.9	6.4	8.5	9.2	3.4	2.9	2.9	2.0
8			2.9	15.1	10.7	6.3	8.6	9.2	3.3	2.9	2.8	2.1
9			3.2	15.8	10.5	6.4	8.5	9.2	3.2	2.8	2.7	2.2
10			3.7	16.5	10.2	6.7	8.4	9.1	3.1	2.8	2.6	2.3
11			4.2	17.0	9.8	7.2	8.8	8.9	3.0	2.8	2.6	2.4
12			4.5	17.4	9.5	7.5	8.6	8.7	2.9	2.7	2.5	2.8
13			4.4	17.6	9.1	7.7	8.6	8.4	3.0	2.7	2.5	2.9
14			4.2	17.6	8.8	7.7	8.7	8.1	3.0	2.8	2.5	3.0
15			4.0	17.4	8.4	7.7	8.8	7.7	3.1	2.8	2.6	3.1
16			3.8	17.2	8.2	7.7	9.0	7.4	3.5	2.8	2.5	3.1
17			3.5	16.9	7.9	7.6	9.5	7.1	3.7	2.6	2.4	3.1
18			4.0	16.4	7.6	7.7	9.8	6.8	3.6	2.5	2.4	2.9
19			5.3	16.1	7.3	7.7	10.3	6.4	3.5	2.6	2.4	2.8
20			6.7	15.8	7.2	7.7	10.5	6.0	3.6	2.6	2.4	2.4
21			7.5	15.4	6.9	7.7	10.6	5.6	3.5	2.5	2.3	2.4
22			8.1	15.2	6.7	7.6	10.6	5.4	3.5	2.6	2.2	2.5
23			9.0	15.0	6.6	7.6	10.5	5.1	3.5	2.7	2.1	2.5
24			9.5	14.7	6.6	8.0	10.4	4.8	3.5	2.8	2.1	2.7
25			9.6	14.4	6.6	8.3	10.2	4.5	3.5	2.9	2.0	2.7
26			9.8	14.1	6.8	8.6	10.1	4.4	3.5	3.0	2.0	2.8
27			9.6	13.8	7.3	8.7	9.9	4.3	3.6	3.1	1.6	2.8
28			9.7	13.3	7.4	8.8	9.6	4.2	3.5	3.2	1.5	2.8
29			9.9	13.1	7.6	9.0	9.3	4.0	3.5	3.3	1.8	2.7
30			10.3	12.8	7.7	9.0	9.0	4.0	3.4	3.4	2.1	2.7
31			10.4		7.7		8.8	3.9		3.4		2.8

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, North McGregor, Iowa—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	3.6	4.9	5.8	4.6	7.1	2.7	1.3	0.6	3.1	1.5
2			3.6	5.0	5.7	4.7	6.8	2.6	1.3	0.6	3.0	1.6
3			3.7	5.4	5.5	4.8	6.5	2.6	1.3	0.6	2.9	1.8
4			3.8	5.7	5.3	5.0	6.7	2.6	1.3	0.6	2.9	1.8
5			3.8	5.8	5.1	5.2	5.9	2.6	1.3	0.6	2.9	1.9
6			3.8	5.8	4.9	5.4	5.6	2.6	1.2	0.7	2.8	1.9
7			3.8	5.6	4.8	5.4	5.4	2.5	1.2	0.7	2.8	2.0
8			3.9	5.4	4.7	5.5	5.1	2.5	1.2	0.7	2.8	2.0
9			4.1	5.3	4.7	5.6	5.1	2.4	1.1	0.7	2.8	2.0
10			4.6	5.1	4.6	5.9	5.0	2.3	1.1	0.8	2.7	2.0
11			5.0	4.9	4.5	6.2	4.8	2.2	1.0	0.9	2.6	2.1
12			5.4	4.8	4.5	6.5	4.6	2.1	0.9	0.8	2.5	2.1
13			5.6	4.6	4.4	6.9	4.5	2.0	0.9	0.8	2.5	2.1
14			5.6	4.5	4.3	7.5	4.4	2.0	1.0	0.8	2.5	2.0
15			5.8	4.4	4.2	8.0	4.4	2.0	1.1	1.0	2.4	2.0
16			5.5	4.4	4.1	8.6	4.4	2.2	1.1	1.1	2.4	2.0
17			5.5	4.4	3.9	9.3	4.3	2.4	1.1	1.3	2.3	2.0
18			5.5	4.4	3.9	9.7	4.3	2.5	1.1	1.7	2.1	2.2
19			5.0	4.6	3.9	10.0	4.3	2.3	1.1	1.7	2.1	2.2
20			4.5	4.9	3.9	10.0	4.6	2.1	1.0	1.8	2.0	2.2
21			4.4	5.2	3.9	9.9	4.4	2.0	1.1	1.9	2.0	2.3
22			4.4	5.3	3.8	9.7	4.4	1.8	1.1	2.0	2.0	2.4
23			4.3	5.4	3.8	9.5	4.2	1.8	1.2	2.2	2.0	2.4
24			4.3	5.4	3.8	9.2	3.9	1.8	1.1	2.2	1.5	2.5
25			4.4	5.5	3.8	9.0	3.6	1.6	1.0	2.4	0.8	2.5
26			4.4	5.5	3.9	8.7	3.4	1.6	1.0	2.6	0.1	2.7
27			4.5	5.6	4.0	8.4	3.3	1.6	0.8	2.7	1.6	2.7
28			4.5	5.8	4.1	8.2	3.2	1.5	0.7	2.8	1.8	2.3
29			4.6	5.9	4.3	7.8	3.1	1.4	0.7	2.9	1.6	2.2
30			4.7	6.0	4.5	7.4	3.0	1.2	0.6	3.0	1.5	2.1
31			4.8		4.6		2.8	1.2		3.1		2.0

1899.

1	1.9	1.0	3.6	3.4	10.2	8.0	10.7	3.4	4.0	3.0	6.3	3.9
2	1.9	1.1	3.5	3.3	9.9	7.9	10.4	3.3	4.2	2.9	6.8	3.9
3	1.7	1.2	3.5	3.4	9.6	8.3	10.1	3.5	4.4	2.8	7.0	3.9
4	1.5	1.2	3.4	4.1	9.4	8.2	9.8	3.8	4.6	2.7	7.1	3.9
5	1.3	1.3	3.4	4.8	9.3	8.2	9.4	3.8	4.8	2.6	7.1	3.9
6	1.5	1.3	3.4	5.7	9.4	8.1	9.2	3.7	4.9	2.4	7.1	3.7
7	1.7	1.3	3.4	6.2	9.8	8.1	8.9	3.6	4.9	2.4	7.0	3.5
8	1.7	1.4	3.3	6.9	10.0	8.2	8.6	3.4	4.9	2.3	6.8	3.4
9	1.7	1.4	3.3	7.8	10.3	8.3	8.3	3.2	4.8	2.2	6.6	3.0
10	1.7	1.4	3.1	7.9	10.6	8.6	8.0	3.1	4.6	2.2	6.3	2.9
11	1.6	1.3	3.4	7.8	10.7	8.8	7.8	2.9	4.5	2.3	6.0	2.9
12	1.6	1.2	5.4	8.2	10.8	9.1	7.5	2.9	4.5	2.3	5.6	2.9
13	1.7	1.0	6.0	8.7	10.7	9.6	7.3	2.8	4.5	2.3	5.4	2.8
14	1.8	1.0	6.2	9.0	10.6	10.5	7.0	2.8	4.4	2.2	5.2	Frozen.
15	1.9	1.1	7.3	9.4	10.4	11.6	6.9	2.7	4.3	2.3	5.1	
16	2.0	1.3	7.6	9.5	10.0	12.6	6.7	2.6	4.3	2.2	4.9	
17	2.0	1.4	7.6	9.5	9.7	13.4	6.5	2.4	4.3	2.1	4.8	
18	2.0	1.7	7.3	9.6	9.4	14.1	6.3	2.3	4.3	2.0	4.6	
19	2.1	1.9	7.0	9.8	9.0	14.4	6.1	2.2	4.3	2.0	4.4	
20	2.1	2.2	6.6	10.1	8.6	14.4	6.0	2.1	4.3	2.0	4.2	
21	2.0	2.8	6.1	10.4	8.3	14.4	5.9	2.2	4.3	2.1	4.3	
22	1.9	3.0	5.5	10.8	8.0	14.3	5.6	2.2	4.2	2.4	4.1	
23	1.9	3.2	5.1	11.2	7.8	14.2	5.2	2.3	4.0	2.6	4.0	
24	1.9	3.3	4.6	11.5	7.8	14.0	4.9	2.6	3.9	3.0	4.0	
25	1.9	3.4	4.2	11.6	7.8	13.6	4.6	2.7	3.8	3.7	4.0	
26	1.8	3.5	3.9	11.5	8.0	13.1	4.3	2.7	3.6	4.3	4.0	
27	1.7	3.5	3.9	11.2	8.1	12.6	4.2	2.9	3.5	4.8	3.9	
28	1.6	3.6	3.6	11.1	8.2	12.0	4.0	3.0	3.3	5.1	3.9	
29	1.5		3.5	10.9	8.2	11.5	3.8	3.2	3.2	5.4	3.9	
30	1.4		3.5	10.6	8.2	11.1	3.6	3.4	3.1	5.7	3.9	
31	1.3		3.4		8.1		3.4	3.7		6.1		

DAILY RIVER STAGES.

Mississippi River system—Mississippi River, Dubuque, Iowa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	0.7	12.9	12.8	7.0	2.6	1.1	1.3	1.7	2.0
2				0.9	12.9	12.3	6.7	2.4	1.0	1.2	1.9	1.2
3				1.2	12.8	11.7	6.5	2.2	0.9	1.0	2.1	Frozen.
4				1.2	12.6	11.2	6.2	2.1	0.9	1.0	2.1	-----
5				1.1	12.4	10.7	6.0	2.1	0.8	1.0	2.1	-----
6				1.2	12.1	10.3	5.8	2.0	0.7	1.0	2.2	-----
7				1.2	11.8	10.4	5.5	2.0	0.7	1.0	2.5	-----
8				1.1	11.7	10.4	5.2	2.0	0.7	1.0	2.8	-----
9				1.3	11.6	10.1	5.0	2.1	0.7	0.8	3.2	6.0
10				1.4	11.6	9.8	4.8	2.2	0.8	0.8	3.5	7.0
11				1.6	11.8	9.5	4.5	2.0	0.8	0.8	3.8	7.3
12				1.6	11.9	9.2	4.3	2.0	0.9	0.8	3.8	7.6
13				2.1	11.9	8.8	4.0	1.9	1.0	0.7	3.9	6.8
14				2.5	12.0	8.7	3.8	1.8	1.4	0.7	3.8	6.4
15				2.6	11.8	8.6	3.7	1.7	2.1	0.8	3.8	6.2
16				2.8	11.6	8.5	3.6	1.8	1.7	0.8	8.8	6.1
17				3.0	11.4	8.5	3.6	1.9	1.3	0.8	3.6	5.9
18				3.2	11.4	8.4	3.5	1.9	1.4	0.7	3.4	5.8
19				3.5	11.1	8.4	3.5	1.9	1.5	0.6	3.3	5.6
20				4.2	10.9	8.2	3.6	1.9	1.5	0.6	3.2	5.4
21				5.2	11.0	8.2	3.6	2.2	1.5	0.6	3.2	5.2
22			1.0	5.9	11.2	8.1	3.6	2.2	1.4	0.6	3.2	5.1
23			1.3	6.6	11.2	7.9	3.6	2.6	1.4	0.7	2.8	4.9
24			1.3	7.5	11.6	7.7	3.6	2.7	1.4	0.8	2.2	4.8
25			1.1	8.1	12.9	7.6	3.4	2.6	1.3	0.8	2.4	4.4
26			1.1	8.9	13.4	8.0	3.3	2.4	1.2	0.8	2.8	4.0
27			1.2	9.8	13.6	7.8	5.2	2.0	1.2	0.9	3.2	3.6
28			1.0	10.9	13.8	7.6	3.9	1.8	1.3	1.0	3.4	3.5
29			0.8	12.2	13.9	7.5	3.1	1.5	1.3	1.0	3.4	3.4
30			0.7	12.8	13.6	7.2	2.8	1.4	1.3	1.5	2.8	3.4
31			0.7	-----	13.3	-----	2.6	1.2	-----	1.6	-----	3.4

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.5	Frozen.	Frozen.	10.1	13.2	7.5	8.9	8.6	3.9	3.3	3.4	Frozen.
2	3.8			10.5	12.8	7.5	8.8	8.4	4.7	3.2	3.4	-----
3	4.2			11.1	12.5	7.4	8.6	8.4	4.4	3.2	3.3	-----
4	4.4			11.6	12.1	7.2	8.4	8.3	4.0	3.1	3.2	-----
5	4.4			12.1	11.8	7.0	8.3	8.5	3.8	3.0	3.2	-----
6	4.0			12.6	11.5	6.8	8.3	8.6	3.6	2.9	3.1	-----
7	3.5			13.2	11.2	6.6	8.3	8.8	3.6	2.8	3.0	-----
8	3.3			13.9	11.0	6.3	8.4	8.8	3.4	2.8	2.9	-----
9	3.0			14.7	10.8	6.1	8.4	8.8	3.2	2.8	2.9	-----
10	3.0			15.5	10.5	6.2	8.5	8.8	3.2	2.8	2.8	-----
11	2.8			16.2	10.2	6.6	8.4	8.8	3.1	2.8	2.6	-----
12	3.2			16.9	9.9	7.0	8.8	8.7	3.1	2.7	2.6	-----
13	3.8			17.4	9.5	7.2	8.6	8.4	2.9	2.6	2.5	-----
14	4.0			17.7	9.2	7.3	8.4	8.1	2.9	2.6	2.6	-----
15	4.4			17.9	8.9	7.4	8.4	7.8	2.9	2.6	2.6	-----
16	4.4			17.8	8.5	7.4	8.5	7.5	3.1	2.6	2.6	-----
17	4.6			17.7	8.2	7.4	8.6	7.2	3.8	2.6	2.5	-----
18	4.8			17.4	7.8	7.7	9.0	6.8	3.9	2.6	2.4	-----
19	6.0		5.9	17.0	7.5	7.6	9.3	6.5	3.6	2.6	2.4	-----
20	7.8		9.0	16.6	7.4	7.6	9.6	6.2	3.5	2.5	2.4	-----
21	8.0		9.0	16.2	7.1	7.6	9.9	5.8	3.5	2.5	2.4	-----
22	8.2		7.7	16.0	6.8	7.5	10.0	5.5	3.4	2.6	2.3	-----
23	Frozen.		7.7	15.9	6.7	7.4	10.1	5.2	3.4	2.6	2.2	-----
24			7.2	15.6	6.5	7.7	10.2	4.9	3.4	2.6	2.2	-----
25			7.5	15.4	6.4	7.8	10.2	4.6	3.4	2.6	2.1	-----
26			8.1	15.1	6.4	8.0	10.2	4.4	3.4	2.6	2.0	-----
27			8.8	14.7	6.6	8.2	10.2	4.3	3.4	2.8	1.9	-----
28			9.2	14.3	6.9	8.4	9.8	4.2	3.4	3.0	1.0	-----
29			9.4	13.9	7.2	8.5	9.5	4.0	3.4	3.1	0.3	-----
30			9.7	13.5	7.3	8.8	9.2	3.9	3.4	3.2	0.2	-----
31			9.9	-----	7.4	-----	8.9	3.8	-----	3.3	-----	-----

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, Dubuque, Iowa—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	4.6	5.8	4.5	7.2	2.7	1.2	0.5	3.1	Frozen.
2				4.8	5.8	4.5	6.8	2.6	1.2	0.6	3.2	
3				5.0	5.6	4.5	6.6	3.0	1.1	0.6	3.0	
4				5.1	5.4	4.6	6.3	2.6	1.1	0.6	2.8	
5				5.5	5.2	4.6	6.0	2.5	1.2	0.6	2.8	
6				5.7	5.1	4.8	5.7	2.5	1.2	0.6	2.8	
7				5.7	4.8	5.0	5.4	2.5	1.1	0.6	2.8	
8				5.5	4.8	5.1	5.2	2.5	1.1	0.7	2.9	
9				5.4	4.6	5.2	4.9	2.5	1.0	0.7	3.0	
10				5.2	4.5	5.3	4.7	2.4	1.0	0.8	3.0	
11				5.0	4.5	5.5	4.6	2.3	1.0	0.8	2.9	
12				4.9	4.4	5.8	4.5	2.2	1.0	0.8	2.8	
13			5.9	4.8	4.4	6.0	4.4	2.0	0.9	0.8	2.8	
14			5.9	4.7	4.3	6.4	4.2	2.0	0.9	0.8	2.6	
15			5.8	4.6	4.3	6.8	4.2	1.9	0.8	1.0	2.6	
16			5.8	4.4	4.2	7.3	4.2	2.2	0.8	1.1	2.6	
17			5.0	4.4	4.0	7.8	4.2	2.2	0.9	1.2	2.5	
18			5.1	4.4	4.0	8.4	4.1	2.3	1.0	1.5	2.5	
19			5.5	4.5	4.0	8.8	4.0	2.4	0.9	1.7	2.4	
20			5.1	4.6	4.0	9.2	4.1	2.4	0.9	1.8	2.3	
21			4.7	4.8	3.9	9.4	4.8	2.2	0.9	1.8	2.2	
22			4.5	5.1	3.8	9.4	4.4	2.0	0.9	2.0	2.2	
23			4.5	5.3	3.8	9.4	4.2	1.8	1.1	2.2	2.2	
24			4.4	5.4	3.7	9.2	4.0	1.8	1.1	2.2	2.1	
25			4.3	5.4	3.7	9.1	3.8	1.7	1.0	2.3	1.7	
26			4.3	5.4	3.8	8.9	3.6	1.6	0.9	2.5	1.2	
27			4.3	5.4	3.8	8.4	3.3	1.6	0.8	2.6	0.1	
28			4.4	5.4	3.9	8.2	3.2	1.5	0.7	2.7	0.4	
29			4.4	5.6	4.0	7.9	3.1	1.4	0.6	2.9	Frozen.	
30			4.5	5.7	4.2	7.6	3.0	1.4	0.5	3.0	Frozen.	
31			4.6		4.4		2.8	1.3		3.1		

1899.

1	Frozen.	Frozen.	Frozen.	3.0	11.2	8.7	11.7	3.5	3.5	3.1	5.6	3.8
2				2.9	10.8	8.4	11.2	3.5	3.7	3.0	5.9	3.7
3				2.9	10.4	8.6	10.8	3.4	3.9	2.9	6.2	3.7
4				2.8	10.0	9.0	10.4	3.8	4.1	2.8	6.6	3.6
5				2.7	9.7	8.8	10.1	3.9	4.3	2.7	6.7	3.5
6				3.2	9.5	8.5	9.7	3.8	4.5	2.6	6.8	3.4
7				3.8	9.5	8.9	9.3	3.7	4.6	2.5	6.8	3.3
8				4.2	9.7	8.5	8.9	3.6	4.6	2.4	6.8	3.2
9				5.7	9.9	8.4	8.6	3.5	4.6	2.4	6.6	3.1
10				5.9	10.3	8.4	8.3	3.4	4.5	2.3	6.4	3.0
11				7.0	10.5	8.6	8.1	3.1	4.4	2.3	6.2	3.0
12				7.8	10.7	8.7	7.8	3.0	4.3	2.3	5.9	3.2
13			7.6	8.1	10.8	9.0	7.6	2.9	4.2	2.3	5.6	3.2
14			8.0	8.4	10.7	9.5	7.6	2.9	4.2	2.3	5.4	3.1
15			8.0	8.8	10.7	10.3	7.8	2.8	4.2	2.2	5.2	2.8
16			7.5	9.1	10.7	11.0	7.3	2.8	4.0	2.3	5.0	Frozen.
17			7.8	9.2	10.7	11.9	6.8	2.6	4.0	2.4	4.8	
18			7.9	9.4	10.3	12.9	6.6	2.5	4.1	2.2	4.7	
19			7.7	9.5	9.8	13.8	6.3	2.4	4.1	2.1	4.5	
20			7.4	9.6	9.4	14.4	6.1	2.3	4.1	2.2	4.4	
21			7.2	9.9	8.9	14.7	5.8	2.2	4.0	2.2	4.2	
22			7.0	10.1	8.6	14.8	5.6	2.2	4.0	2.2	4.1	
23			6.2	10.5	8.2	14.8	5.4	2.3	4.0	2.3	4.0	
24			5.6	10.9	7.9	14.8	5.1	2.4	3.9	2.6	4.0	
25			5.0	11.4	7.8	14.6	4.9	2.6	3.7	3.0	3.9	
26			4.7	11.6	8.1	14.3	4.5	2.8	3.6	3.6	3.9	
27			4.3	11.7	7.8	13.8	4.3	2.9	3.6	4.0	3.9	
28			4.0	11.6	8.4	13.7	4.1	2.9	3.3	4.4	3.8	
29			3.7	11.5	8.5	13.0	4.0	2.9	3.2	4.7	3.8	
30			3.4	11.5	8.5	12.3	3.8	3.1	3.1	5.0	3.8	
31			3.2		8.6		3.6	3.3		5.4		

DAILY RIVER STAGES.

Mississippi River system—Mississippi River, Leclaire, Iowa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	1.3	0.5	7.6	9.0	4.8	2.2	1.0	1.1	1.1	1.0
2			1.1	0.5	8.4	8.8	4.7	1.9	0.9	1.0	0.9	1.0
3			1.0	0.6	8.2	8.5	4.6	1.6	0.9	0.9	0.8	1.0
4			Frozen.	0.7	8.3	8.2	4.5	1.4	0.8	0.9	0.8	0.6
5				0.7	8.3	7.8	4.4	1.2	0.8	0.9	0.9	0.0
6			1.3	0.7	8.2	7.4	4.2	1.2	0.8	0.9	1.0	0.0
7			1.3	0.7	8.0	7.2	4.0	1.2	0.8	0.8	1.0	0.2
8			1.3	0.6	7.9	7.1	3.9	1.1	0.7	0.8	1.2	0.8
9			1.3	0.6	7.8	7.0	3.7	1.1	0.7	0.8	1.3	1.3
10			1.2	0.7	7.6	6.8	3.6	1.1	0.7	0.8	1.5	1.8
11			1.1	0.8	7.5	6.7	3.4	1.2	0.7	0.7	1.8	2.2
12			Frozen.	1.0	7.5	6.6	3.2	1.3	0.7	0.7	2.1	2.9
13				1.1	7.5	6.4	3.0	1.2	0.7	0.7	2.2	4.0
14				1.2	7.5	6.2	2.9	1.1	0.8	0.7	2.2	4.4
15				1.3	7.6	5.9	2.7	1.0	1.1	0.7	2.2	4.2
16				1.5	7.6	5.6	2.5	1.0	1.5	0.6	2.2	4.0
17				1.7	7.6	5.6	2.3	1.1	1.6	0.6	2.1	4.0
18				1.8	7.7	5.6	2.2	1.1	1.4	0.6	2.1	3.9
19			0.8	1.9	7.6	5.6	2.1	1.0	1.2	0.6	2.1	3.8
20			0.6	2.2	7.5	5.6	2.1	1.0	1.2	0.6	2.0	3.7
21			0.6	2.7	7.4	5.7	2.0	1.1	1.1	0.6	1.8	3.6
22			0.7	3.2	7.2	5.6	2.1	0.2	1.0	0.5	1.6	3.6
23			0.7	3.8	7.2	5.4	2.2	1.5	0.9	0.5	1.5	3.5
24			0.7	4.6	7.2	5.3	2.3	1.6	0.9	0.5	1.4	3.3
25			0.8	4.9	7.3	5.2	2.2	1.6	0.9	0.5	1.3	3.2
26			0.7	5.2	8.6	5.2	2.1	1.6	0.9	0.6	1.2	3.0
27			0.7	5.5	9.2	5.2	2.4	1.5	0.9	0.6	1.2	2.4
28		1.6	0.7	6.0	9.3	5.1	4.0	1.4	0.9	0.7	1.4	2.1
29		1.4	0.7	6.5	9.3	5.0	4.0	1.3	0.9	0.7	1.5	1.8
30			0.6	7.1	9.2	4.9	3.3	1.2	1.0	0.8	1.2	1.6
31			0.6		9.1		2.5	1.1		1.1		1.4

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	1.1	6.5	9.5	4.8	5.4	5.8	2.3	1.9	1.8	Frozen.
2			1.0	6.6	9.1	4.7	5.5	5.6	2.4	1.9	1.9	
3			1.0	6.9	8.9	4.8	5.6	5.4	2.9	1.9	1.9	
4			0.9	7.1	8.7	4.8	5.6	5.3	2.9	1.8	1.8	
5			0.8	7.4	8.4	4.7	5.5	5.3	2.9	1.8	1.7	
6			0.8	7.8	8.0	4.7	5.4	5.3	2.7	1.7	1.7	
7			0.7	8.0	7.8	4.6	5.3	5.4	2.3	1.7	1.7	
8			0.7	8.3	7.5	4.5	5.3	5.4	2.1	1.6	1.6	
9			1.2	8.6	7.4	4.3	5.3	5.5	2.0	1.6	1.6	
10			2.8	9.0	7.3	4.1	5.3	5.5	1.9	1.6	1.6	
11			3.5	9.5	7.1	4.0	5.4	5.5	1.9	1.5	1.6	
12			3.9	10.0	6.9	4.1	5.5	5.5	1.8	1.5	1.6	
13			4.5	10.5	6.7	4.3	5.6	5.4	1.8	1.5	1.5	
14			4.3	11.0	6.5	4.5	5.7	5.3	1.8	1.5	1.4	
15			4.0	11.4	6.4	4.6	5.6	5.3	1.7	1.5	1.4	
16			3.5	11.7	6.1	4.7	5.5	5.2	1.7	1.4	1.4	
17			2.6	11.9	5.8	4.7	5.4	5.0	1.7	1.4	1.3	
18			2.4	11.9	5.5	4.9	5.4	4.8	1.9	1.4	1.3	
19			3.6	11.8	5.4	4.9	5.5	4.7	2.3	1.4	1.2	
20			3.9	11.7	5.2	4.9	5.7	4.5	2.2	1.4	1.2	
21			5.3	11.5	5.0	4.9	5.9	4.2	2.1	1.4	1.2	
22			5.3	11.2	4.8	4.9	6.1	4.0	2.0	1.4	1.2	
23			5.2	10.9	4.6	4.8	6.2	3.8	2.0	1.3	1.2	
24			5.2	10.8	4.5	5.1	6.4	3.6	2.0	1.3	1.1	
25			5.2	10.8	4.5	5.3	6.4	3.4	2.0	1.3	1.0	
26			5.3	10.7	4.4	5.2	6.4	3.2	2.0	1.3	1.0	
27			5.5	10.6	4.3	5.2	6.4	3.0	2.0	1.4	0.9	
28			6.0	10.4	4.4	5.2	6.4	2.9	1.9	1.4	0.8	
29			6.2	10.2	4.5	5.4	6.3	2.8	1.9	1.5	0.5	
30			6.4	9.9	4.6	5.4	6.1	2.7	1.9	1.6	0.2	
31			6.5		4.7		6.0	2.5		1.7		

DAILY RIVER STAGES.

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*Mississippi River system—Mississippi River, Leclaire, Iowa—Continued.***1898.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	3.3	3.9	3.2	5.2	1.5	0.9	0.4	1.7	Frozen.
2				3.3	3.9	3.1	4.8	1.5	0.8	0.4	1.8	
3				3.4	4.0	3.1	4.6	1.5	0.8	0.4	1.8	
4				3.5	3.9	3.1	4.5	1.8	0.8	0.4	1.7	
5				3.6	3.8	3.1	4.3	1.8	0.8	0.4	1.7	
6				3.7	3.7	3.2	4.1	1.7	1.0	0.4	1.7	
7				3.8	3.6	3.3	3.9	1.5	1.1	0.4	1.6	
8				3.9	3.5	3.4	3.8	1.5	1.0	0.4	1.6	
9				3.9	3.4	3.5	3.6	1.5	0.9	0.4	1.6	
10				3.8	3.2	3.6	3.5	1.5	0.8	0.4	1.6	
11			4.0	3.7	3.2	3.7	3.3	1.4	0.8	0.5	1.6	
12			4.7	3.6	3.1	3.8	3.2	1.4	0.7	0.5	1.7	
13			4.5	3.6	3.1	4.0	3.1	1.4	0.7	0.5	1.6	
14			4.0	3.6	3.1	4.2	3.0	1.3	0.6	0.5	1.5	
15			4.2	3.5	3.0	4.4	2.9	1.3	0.6	0.5	1.4	
16			4.6	3.4	3.0	4.5	2.9	1.7	0.6	0.5	1.4	
17			4.6	3.2	2.9	4.7	2.9	2.2	0.6	0.6	1.3	
18			4.5	3.1	2.8	4.9	2.9	1.9	0.6	0.7	1.2	
19			4.3	3.1	2.8	5.1	2.8	1.7	0.6	0.8	1.2	
20			4.2	3.2	3.0	5.4	2.9	1.5	0.6	0.8	1.1	
21			4.0	3.3	2.9	5.6	3.2	1.4	0.6	0.9	1.1	
22			3.7	3.4	2.9	5.7	3.4	1.4	0.6	1.0	1.0	
23			3.4	3.5	2.9	5.9	3.2	1.4	0.7	1.0	1.0	
24			3.2	3.6	2.9	6.0	3.0	1.3	0.7	1.1	0.8	
25			3.1	3.7	2.8	6.0	2.8	1.3	0.7	1.2	0.7	
26			3.1	3.7	2.7	6.0	2.7	1.2	0.7	1.3	0.5	
27			3.2	3.7	2.6	6.0	2.5	1.1	0.6	1.3	Frozen.	
28			3.3	3.7	2.7	5.8	2.1	1.0	0.6	1.4		
29			3.4	3.7	2.8	5.6	1.9	1.0	0.5	1.5		
30			3.3	3.8	2.9	5.4	1.7	1.0	0.5	1.6		
31			3.3		3.1		1.6	0.9		1.7		

1899.

1	Frozen.	Frozen.	Frozen.	0.9	7.4	6.5	8.5	2.2	1.7	1.8	3.1	2.2
2				0.9	7.5	6.4	8.1	2.1	1.9	1.7	3.3	2.2
3				0.9	7.4	6.3	7.7	2.1	2.0	1.7	3.5	2.1
4				0.8	7.2	6.4	7.6	2.0	2.1	1.6	3.8	2.1
5				0.8	6.9	6.5	7.4	2.1	2.2	1.6	4.0	2.0
6				0.9	6.6	6.4	7.1	2.3	2.4	1.5	4.1	2.0
7				1.2	6.4	6.1	6.7	2.2	2.4	1.5	4.2	1.9
8				1.8	6.4	6.0	6.4	2.1	2.5	1.5	4.3	1.9
9				2.3	6.4	6.0	6.2	2.0	2.5	1.4	4.3	1.8
10				2.9	6.4	5.8	6.0	2.0	2.6	1.4	4.2	1.8
11				3.6	6.4	5.6	5.7	2.0	2.6	1.3	4.1	1.8
12				4.1	6.6	5.4	5.5	1.9	2.6	1.3	4.0	1.8
13				4.7	6.8	5.4	5.4	1.8	2.5	1.3	3.8	1.9
14			4.0	5.2	6.8	5.6	5.2	1.7	2.5	1.4	3.7	1.7
15			4.0	5.5	7.0	6.0	5.1	1.7	2.4	1.4	3.5	1.2
16			3.8	5.6	6.9	6.4	5.2	1.6	2.3	1.3	3.4	1.0
17			3.5	5.7	7.1	6.7	5.1	1.6	2.3	1.3	3.2	0.5
18			3.8	5.9	7.1	7.0	4.8	1.5	2.3	1.3	3.0	-0.4
19			4.0	6.2	7.0	7.4	4.5	1.5	2.3	1.3	2.9	0.0
20			4.0	6.3	6.7	8.0	4.2	1.4	2.3	1.2	2.8	0.0
21			3.8	6.4	6.4	8.5	4.1	1.4	2.3	1.2	2.7	Frozen.
22			3.6	6.4	6.1	8.9	3.9	1.3	2.3	1.2	2.6	
23			3.4	6.5	5.8	9.2	3.8	1.2	2.3	1.2	2.5	
24			2.6	6.6	5.6	9.4	3.7	1.2	2.3	1.3	2.4	
25			2.4	6.7	5.3	9.4	3.6	1.2	2.2	1.3	2.4	
26			2.2	7.0	5.2	9.4	3.5	1.2	2.2	1.5	2.3	
27			2.0	7.2	5.3	9.3	3.3	1.3	2.1	1.9	2.3	
28			1.8	7.4	6.2	9.2	3.0	1.4	2.1	2.2	2.3	
29			1.2	7.5	6.7	9.1	2.8	1.5	2.0	2.4	2.2	
30			1.0	7.5	7.2	8.8	2.5	1.5	1.9	2.7	2.2	
31			1.0		6.8		2.3	1.6		2.9		

DAILY RIVER STAGES.

Mississippi River system—Mississippi River, Davenport, Iowa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.4	Frozen.	2.0	0.8	9.0	11.7	6.0	3.2	1.3	1.8	2.4	1.4
2	2.4	-----	1.7	1.0	9.7	11.4	5.8	3.0	1.1	1.8	2.1	0.8
3	Frozen.	-----	1.6	1.0	10.2	10.9	5.6	2.8	1.1	1.7	2.0	0.8
4	-----	-----	1.3	0.8	10.4	10.5	5.4	2.6	1.0	1.7	2.1	0.9
5	-----	-----	1.2	0.8	10.4	10.0	5.2	2.3	1.0	1.7	2.3	0.6
6	-----	-----	1.4	0.8	10.2	9.6	5.0	2.2	1.0	1.6	2.4	0.5
7	-----	-----	1.6	0.8	10.0	9.1	4.8	2.1	0.9	1.6	2.4	1.0
8	-----	-----	1.8	0.7	9.8	8.9	4.6	2.0	0.8	1.5	2.4	1.6
9	-----	-----	1.6	0.8	9.6	8.6	4.4	2.0	0.8	1.4	2.5	2.0
10	-----	-----	1.6	0.8	9.4	8.5	4.2	2.0	0.8	1.4	2.6	2.8
11	-----	-----	1.4	1.0	9.2	8.2	4.0	2.1	0.8	1.2	2.8	3.3
12	-----	-----	0.7	1.1	9.2	8.0	3.8	2.2	0.8	1.2	3.0	4.0
13	-----	-----	0.7	1.2	9.2	7.8	3.6	2.0	0.8	1.2	3.4	4.8
14	-----	-----	0.7	1.3	9.2	7.4	3.4	1.9	0.8	1.2	3.4	5.1
15	-----	-----	1.0	1.6	9.3	7.2	3.2	1.8	1.4	1.2	3.4	5.0
16	-----	-----	0.8	1.8	9.4	7.0	3.0	1.9	1.8	1.2	3.4	4.9
17	-----	-----	1.0	1.9	9.6	6.8	2.8	1.9	2.6	1.2	3.5	4.8
18	-----	-----	1.2	2.0	9.4	6.8	2.8	1.8	2.4	1.2	3.4	4.6
19	-----	-----	1.0	2.2	9.5	6.7	2.8	1.8	2.2	1.1	3.4	4.6
20	-----	-----	0.5	2.2	9.3	6.7	2.8	1.7	2.2	1.0	3.2	4.4
21	-----	-----	0.5	2.7	9.2	6.8	2.7	1.7	2.1	1.0	3.0	4.2
22	-----	-----	0.7	3.4	8.9	6.8	2.8	2.0	2.0	1.0	3.0	4.0
23	-----	-----	0.6	4.0	8.8	6.6	3.0	2.1	1.8	1.0	2.8	4.0
24	-----	-----	0.6	4.8	8.8	6.4	3.1	2.1	1.8	1.0	2.7	3.6
25	-----	Frozen.	0.7	5.6	8.8	6.3	3.0	2.3	1.6	1.0	2.5	3.6
26	-----	-----	1.0	5.9	9.1	6.2	3.0	2.2	1.6	1.1	2.2	3.6
27	-----	-----	1.0	6.4	11.5	6.2	3.0	2.2	1.6	1.2	2.2	3.4
28	-----	-----	0.9	7.0	12.0	6.3	4.3	2.0	1.6	1.2	2.8	3.2
29	-----	-----	1.0	7.6	12.0	6.2	4.7	1.8	1.6	1.2	2.9	2.9
30	-----	-----	0.9	8.4	12.0	6.1	4.2	1.6	1.8	1.4	2.4	2.9
31	-----	-----	0.7	-----	11.9	-----	3.6	1.5	-----	1.9	-----	3.0

1897.

1	2.9	Frozen.	Frozen.	9.0	12.3	5.8	6.8	7.2	3.3	2.9	2.8	-0.5
2	3.0	-----	-----	9.2	11.9	5.8	7.0	7.0	3.4	2.9	2.8	-0.2
3	3.2	-----	-----	9.4	11.5	6.0	7.0	6.8	3.8	2.8	2.9	-0.2
4	3.4	-----	-----	9.6	11.1	6.0	6.9	6.6	4.0	2.8	2.8	0.1
5	3.8	-----	-----	9.8	10.7	5.9	7.0	6.6	3.8	2.7	2.8	0.2
6	3.8	-----	-----	10.1	10.4	5.8	6.8	6.6	3.6	2.7	2.8	0.4
7	3.6	-----	-----	10.3	10.0	5.6	6.7	6.6	3.3	2.6	2.8	0.3
8	3.5	-----	-----	10.6	9.7	5.4	6.6	6.6	3.2	2.5	2.7	0.4
9	3.4	-----	-----	10.9	9.4	5.3	6.6	6.8	3.0	2.5	2.7	0.5
10	3.2	-----	-----	11.4	9.2	5.1	6.6	6.8	3.0	2.4	2.6	0.8
11	3.2	-----	-----	12.0	8.9	5.0	6.7	6.8	2.8	2.4	2.6	0.9
12	3.0	-----	8.0	12.5	8.7	5.2	6.8	6.8	2.7	2.4	2.6	1.5
13	2.2	-----	7.9	13.2	8.4	5.4	6.8	6.8	2.7	2.4	2.4	1.8
14	1.4	-----	8.2	13.8	8.2	5.6	6.8	6.8	2.6	2.4	2.3	1.6
15	1.5	-----	7.6	14.4	7.9	5.6	6.8	6.6	2.6	2.3	2.2	1.5
16	2.2	-----	6.8	14.8	7.5	5.8	6.7	6.4	2.6	2.4	2.4	1.4
17	3.0	-----	6.5	15.0	7.2	5.8	6.6	6.2	2.6	2.3	2.4	1.4
18	4.8	-----	6.0	15.1	7.0	6.0	6.7	6.0	2.7	2.2	2.2	2.6
19	4.0	-----	5.6	15.0	6.7	6.2	6.8	5.8	3.2	2.2	2.2	3.9
20	3.6	-----	5.9	14.9	6.4	6.1	7.0	5.5	3.4	2.3	2.2	4.3
21	3.2	-----	7.6	14.6	6.2	6.0	7.2	5.2	3.1	2.3	2.2	Frozen.
22	3.4	-----	8.0	14.3	6.0	6.0	7.4	5.0	3.0	2.2	2.2	-----
23	4.2	-----	8.8	14.1	5.8	6.1	7.6	4.8	3.0	2.2	2.0	-----
24	3.6	-----	9.2	14.0	5.8	6.2	7.8	4.6	3.0	2.2	2.0	-----
25	3.7	-----	9.0	14.0	5.6	6.8	7.8	4.4	3.0	2.2	2.0	-----
26	3.5	-----	8.8	14.0	5.4	6.8	7.8	4.2	3.0	2.2	2.0	-----
27	7.3	-----	8.7	13.8	5.4	6.5	7.9	4.0	3.0	2.2	2.0	-----
28	Frozen.	-----	8.9	13.6	5.4	6.4	7.9	3.8	2.8	2.4	1.8	-----
29	-----	-----	9.0	13.3	5.4	6.6	7.8	3.6	2.9	2.5	1.3	-----
30	-----	-----	9.0	12.9	5.6	6.8	7.7	3.6	3.0	2.6	0.5	-----
31	-----	-----	9.0	-----	5.8	-----	7.5	3.4	-----	2.7	-----	-----

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, Davenport, Iowa—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	4.6	4.7	4.0	6.7	2.6	1.5	0.8	2.8	0.0
2				4.6	4.9	4.0	6.4	2.6	1.4	0.8	2.8	0.5
3				4.6	5.0	4.0	6.1	2.5	1.4	0.8	2.8	0.5
4				4.6	4.8	4.0	5.8	2.7	1.4	0.8	2.8	0.4
5				4.6	4.7	4.0	5.6	3.0	1.4	0.8	2.8	1.0
6				4.8	4.6	4.0	5.2	2.6	1.6	0.8	2.8	1.6
7				4.9	4.5	4.1	4.9	2.4	1.8	0.8	2.8	2.3
8				5.0	4.4	4.2	4.6	2.4	1.6	0.8	2.7	Frozen.
9				5.0	4.2	4.2	4.6	2.4	1.4	0.8	2.7	
10			5.4	4.8	4.2	4.5	4.4	2.4	1.4	0.8	2.8	
11			5.9	4.8	4.0	4.5	4.2	2.3	1.2	0.8	2.8	
12			7.3	4.6	4.0	4.6	4.0	2.2	1.2	1.0	2.7	
13			7.4	4.6	4.0	4.7	3.8	2.1	1.2	1.0	2.6	
14		10.0	6.9	4.6	3.8	5.1	3.8	2.0	1.2	1.0	2.6	
15		9.4	6.6	4.5	3.9	5.2	3.7	2.0	1.2	1.0	2.6	
16		8.6	6.9	4.4	3.8	5.3	3.6	3.2	1.2	1.0	2.5	
17		8.2	6.9	4.3	3.8	5.5	3.5	3.4	1.2	1.1	2.4	
18		7.4	6.5	4.1	3.6	5.8	3.5	3.5	1.2	1.2	2.4	
19		7.1	6.4	4.1	3.7	6.2	3.4	3.0	1.2	1.4	2.4	
20		7.2	6.2	4.2	3.8	6.4	3.5	2.7	1.0	1.6	2.4	
21			6.0	4.2	3.8	6.8	3.8	2.6	1.0	1.7	2.2	
22			5.7	4.2	3.9	7.0	4.2	2.6	1.2	1.8	2.2	
23			5.5	4.4	3.8	7.2	4.1	2.5	1.2	1.8	2.4	
24			5.2	4.6	3.8	7.4	3.8	2.6	1.2	1.8	2.3	
25			4.9	4.6	3.6	7.4	3.6	2.2	1.2	2.1	2.2	
26			4.6	4.7	3.5	7.4	3.5	2.1	1.2	2.4	2.0	
27			4.6	4.6	3.4	7.3	3.4	2.0	1.1	2.4	1.3	
28			4.8	4.7	3.5	7.3	3.2	1.9	1.0	2.4	0.6	
29			4.8	4.7	3.6	7.2	3.0	1.8	1.0	2.6	0.2	
30			4.6	4.7	4.0	7.0	2.8	1.7	0.8	2.7	-0.4	
31			4.6		4.0		2.8	1.6		2.8		

1899.

1	Frozen.	Frozen.	Frozen.	2.3	9.5	8.7	11.0	3.2	2.6	2.8	4.1	3.3
2				2.2	9.6	8.4	10.4	3.2	2.8	2.6	4.3	3.2
3				2.0	9.5	8.3	9.9	3.2	2.9	2.6	4.5	3.2
4				2.0	9.2	8.3	9.6	3.0	3.0	2.5	4.7	3.2
5				1.9	8.9	8.6	9.3	3.0	3.2	2.5	4.9	3.2
6				2.0	8.6	8.3	9.1	3.3	3.4	2.4	5.0	3.1
7				2.5	8.2	7.9	8.8	3.2	3.6	2.4	5.2	3.0
8				3.0	8.1	7.6	8.2	3.2	3.6	2.3	5.3	2.9
9				3.5	8.0	7.6	7.7	3.2	3.6	2.2	5.3	2.8
10				4.1	8.0	7.4	7.3	3.2	3.7	2.0	5.3	2.7
11				4.7	8.0	7.2	7.0	3.0	3.7	2.0	5.2	2.7
12				5.3	8.2	7.0	6.7	3.0	3.6	2.0	5.0	3.0
13				6.0	8.4	7.0	6.4	2.8	3.6	2.0	4.8	3.0
14			6.1	6.5	8.4	7.2	6.2	2.7	3.5	2.2	4.7	2.9
15			6.0	6.8	8.8	7.3	6.2	2.6	3.4	2.2	4.6	2.7
16			5.9	7.0	8.9	7.7	6.2	2.4	3.4	2.1	4.4	1.9
17			5.5	7.2	9.0	8.1	6.2	2.4	3.4	2.0	4.2	1.4
18			5.9	7.4	9.0	8.5	5.9	2.4	3.4	2.0	4.1	1.2
19			6.1	7.6	9.0	9.1	5.5	2.3	3.4	2.0	4.0	0.6
20			6.8	7.6	8.6	9.7	5.2	2.2	3.4	2.0	3.8	1.1
21			6.3	7.8	8.2	10.4	5.1	2.2	3.4	1.9	3.8	0.8
22			5.9	7.8	7.8	11.0	4.9	2.1	3.4	1.9	3.6	0.6
23			5.2	7.9	7.2	11.5	4.7	2.0	3.4	2.0	3.6	0.7
24			4.8	8.1	7.0	11.7	4.6	2.0	3.4	2.0	3.5	0.8
25			4.2	8.3	6.7	11.9	4.4	2.0	3.3	2.0	3.4	1.7
26			3.8	8.6	6.4	11.8	4.4	2.1	3.2	2.3	3.4	2.0
27			3.3	8.8	6.4	11.8	4.1	2.2	3.2	2.6	3.3	3.7
28			3.1	9.4	7.0	11.7	3.8	2.4	3.0	3.1	3.3	Frozen.
29			2.9	9.6	8.0	11.6	3.6	2.4	3.0	3.4	3.3	
30			2.6	9.6	9.2	11.4	3.4	2.4	2.9	3.6	3.2	
31			2.5		9.0		3.4	2.5		3.8		

¹ 1.8 at 5 p. m.² 2.4 at 5 p. m.³ 3.2 at 5 p. m.⁴ 4.0 at 5 p. m.

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DAILY RIVER STAGES.

Mississippi River system—Mississippi River, Muscatine, Iowa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		2.0	3.3	1.6	10.0	13.0	7.0	4.5	1.8	2.0	2.3	2.2
2		2.0	3.0	1.4	10.7	12.9	6.9	3.9	1.5	2.0	2.4	1.6
3		2.6	3.0	1.6	11.3	12.6	6.8	3.6	1.4	1.9	2.1	1.4
4		2.9	2.9	1.8	11.7	12.2	6.4	3.3	1.3	1.8	2.1	1.4
5		3.0	2.4	1.7	11.8	11.8	6.3	3.0	1.3	1.8	2.2	1.2
6		3.0	2.3	1.7	11.8	11.4	5.9	2.7	1.2	1.9	2.5	1.0
7		3.0	2.3	1.6	11.7	10.8	5.9	2.6	1.1	1.9	2.4	0.6
8		2.8	2.7	1.5	11.5	10.6	5.6	2.5	1.1	1.8	2.6	1.3
9		2.7	2.7	1.5	11.2	10.2	5.2	2.4	1.0	1.7	2.7	2.0
10		2.6	2.7	1.9	10.9	10.0	5.0	2.3	1.0	1.6	2.8	2.8
11		2.5	2.5	2.0	10.8	9.9	4.9	2.4	1.0	1.6	2.9	3.4
12		2.4	2.0	2.0	10.7	9.5	4.5	2.6	1.0	1.5	3.2	4.2
13		2.3	1.7	2.0	10.6	9.2	4.3	2.5	1.1	1.5	3.6	5.0
14		2.2	1.4	2.0	10.8	8.9	4.1	2.4	1.1	1.3	3.8	5.5
15		2.2	1.5	2.0	10.6	8.8	4.0	2.3	1.5	1.2	3.8	6.0
16		2.2	1.6	2.4	10.7	8.4	3.8	2.4	1.9	1.2	3.8	5.9
17		2.2	1.9	2.8	11.0	8.2	3.5	2.3	2.7	1.2	3.7	5.8
18		1.9	2.0	3.0	10.9	8.0	3.4	2.2	3.0	1.2	3.7	5.5
19		1.7	2.0	3.0	10.9	8.0	3.5	2.1	3.0	1.2	3.7	5.4
20		1.5	1.9	3.0	10.9	7.9	3.4	2.0	2.9	1.1	3.6	5.0
21		1.7	1.6	3.4	10.8	7.9	3.3	2.0	2.7	1.0	3.5	4.9
22		1.9	1.6	4.0	10.6	7.9	3.4	2.2	2.6	1.0	3.3	4.9
23		2.4	1.6	4.8	10.3	7.9	3.5	2.5	2.5	1.0	3.2	4.8
24		2.8	1.5	5.5	10.3	7.7	3.7	2.5	2.1	1.0	3.0	4.6
25		3.2	1.7	6.6	10.3	7.5	3.7	2.5	2.0	1.0	2.9	4.4
26		4.5	1.7	7.0	10.6	7.3	3.6	2.6	2.0	1.0	2.6	4.3
27		5.6	1.9	7.4	12.2	7.3	3.6	2.7	1.9	1.1	2.3	4.4
28		4.8	1.7	7.9	13.1	7.3	4.0	2.6	1.8	1.1	2.9	4.0
29		4.0	1.6	8.7	13.2	7.3	5.5	2.3	1.7	1.2	2.9	3.4
30			1.6	9.3	13.2	7.1	5.2	2.1	1.9	1.7	2.8	3.6
31			1.7		13.2		4.9	1.9		2.5		3.6

1897.

1			5.0	11.2	13.8	6.9	8.1	8.8	3.7	3.1	2.9	1.0
2			5.0	11.4	13.2	7.0	8.2	8.4	3.9	3.1	3.0	0.9
3			4.9	11.5	13.1	7.0	8.3	8.0	3.9	3.0	3.0	0.9
4			4.7	11.6	12.9	7.0	8.1	7.9	4.2	3.0	3.0	1.1
5			4.4	11.7	12.5	7.0	8.2	7.8	4.0	3.0	3.0	1.6
6			4.4	11.9	12.1	6.9	8.1	7.6	3.9	2.9	3.0	2.0
7			4.2	12.0	11.9	6.8	8.0	7.7	3.8	2.9	3.0	3.0
8			4.1	12.2	11.6	6.6	7.9	7.8	3.5	2.9	3.0	2.9
9			4.7	12.5	11.1	6.3	7.8	7.9	3.3	2.8	2.9	3.1
10			5.0	12.8	10.9	6.0	7.8	7.9	3.2	2.7	2.9	3.4
11			5.1	13.1	10.7	5.9	7.7	7.9	3.1	2.7	2.6	3.3
12			7.0	13.6	10.4	5.9	7.9	8.0	3.0	2.6	2.9	3.4
13			8.1	14.0	10.0	6.1	7.9	8.0	3.0	2.5	2.8	3.6
14			8.1	14.3	9.9	6.4	8.0	7.9	2.9	2.5	2.6	4.2
15			8.0	14.8	9.6	6.6	8.0	7.8	2.9	2.5	2.5	3.9
16			7.8	14.9	9.2	6.6	7.9	7.6	2.9	2.5	2.4	3.4
17			7.1	15.0	8.9	6.9	7.9	7.3	2.9	2.5	2.6	3.0
18			8.0	15.1	8.6	7.0	7.9	7.0	3.0	2.5	2.6	2.5
19			7.8	15.1	8.2	7.1	7.9	6.9	3.2	2.5	2.6	3.0
20			7.7	15.1	7.9	7.3	8.0	6.5	3.6	2.4	2.5	3.7
21			8.9	15.0	7.7	7.2	8.2	6.2	3.5	2.4	2.5	3.9
22			9.8	14.9	7.3	7.1	8.4	6.0	3.3	2.5	2.4	3.8
23			10.6	14.8	7.0	7.0	8.6	5.7	3.2	2.5	2.4	3.5
24			11.2	14.7	6.9	7.4	9.3	5.3	3.1	2.4	2.3	3.5
25			11.3	14.5	6.8	7.9	9.0	5.0	3.1	2.4	2.3	3.5
26			11.2	14.5	6.6	8.1	9.0	4.8	3.1	2.4	2.2	3.5
27			11.2	14.6	6.3	7.9	9.0	4.5	3.1	2.4	2.2	3.5
28			11.1	14.4	6.3	7.9	9.1	4.3	3.0	2.4	2.0	3.4
29			11.1	14.3	6.4	7.9	9.0	4.1	3.0	2.6	1.9	3.5
30			11.1	14.0	6.5	7.9	9.0	4.0	3.0	2.7	1.7	3.6
31			11.1		6.8		8.9	3.9		2.9		3.6

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, Muscatine, Iowa—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	4.4	5.9	5.8	4.8	8.3	3.0	1.9	1.2	3.2	0.6
2			4.3	5.7	5.9	4.8	7.9	2.9	1.8	1.1	3.7	1.1
3			4.2	5.6	5.9	4.8	7.7	2.8	1.7	1.0	3.1	1.2
4			4.0	5.7	5.9	4.7	7.2	2.8	1.7	1.0	3.2	1.2
5			4.0	5.8	5.9	4.7	6.9	3.2	1.6	1.0	3.1	1.2
6			4.0	5.8	5.9	4.7	6.4	3.1	1.7	1.0	3.0	1.3
7			4.0	5.9	5.7	4.7	6.0	3.0	1.9	1.1	3.1	2.7
8			4.0	6.0	5.4	4.9	5.8	2.9	2.1	1.1	2.9	2.7
9			4.2	6.0	5.1	4.9	5.6	2.7	1.9	1.1	2.9	2.8
10			4.7	5.9	5.0	5.4	5.4	2.7	1.7	1.2	3.0	2.9
11			5.0	5.9	4.9	5.3	5.0	2.6	1.6	1.1	3.1	2.9
12			7.9	5.7	4.9	5.3	4.7	2.5	1.5	1.1	3.0	2.9
13			8.8	5.7	4.8	5.4	4.5	2.4	1.5	1.1	3.0	2.9
14			8.9	5.7	4.8	5.9	4.4	2.4	1.5	1.2	2.9	2.8
15			8.6	5.6	4.7	6.2	4.3	2.3	1.4	1.2	2.8	2.7
16			8.6	5.4	4.7	6.2	4.2	3.5	1.4	1.4	2.8	2.8
17			8.7	5.2	4.4	6.4	4.1	4.1	1.4	1.5	2.8	2.8
18			8.4	5.1	4.4	6.8	4.0	4.3	1.4	1.6	2.7	2.8
19			8.1	5.0	4.5	7.2	4.0	4.0	1.4	1.6	2.7	2.8
20			8.0	4.9	4.6	7.5	3.9	3.4	1.4	1.6	2.7	2.8
21			7.9	5.0	4.7	7.8	3.8	3.2	1.4	1.8	2.6	2.8
22			7.6	5.1	4.7	8.0	4.6	3.1	1.4	1.9	2.6	2.8
23			7.2	5.2	4.8	8.2	4.7	3.0	1.4	2.0	2.6	2.8
24			6.9	5.4	4.7	8.5	4.4	3.1	1.5	2.1	2.7	2.8
25			6.6	5.6	4.6	8.7	4.2	2.8	1.5	2.2	2.7	2.8
26			6.1	5.7	4.4	8.7	4.1	2.6	1.5	2.5	2.3	2.9
27			6.0	5.7	4.1	8.7	4.0	2.6	1.5	2.6	2.0	2.8
28			6.0	5.7	4.2	8.7	3.8	2.5	1.4	2.7	2.0	2.8
29			6.0	5.7	4.4	8.8	3.5	2.4	1.3	2.8	1.3	1.8
30			5.9	5.8	4.7	8.6	3.3	2.2	1.3	2.9	0.5	2.8
31			5.9		4.8		3.2	2.1		3.1		2.8

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	4.3	3.1	11.1	10.7	12.8	4.1	3.2	3.6	4.9	4.0
2			5.1	3.0	11.1	10.5	12.2	4.1	3.3	3.4	5.3	4.1
3			5.1	2.8	11.2	10.4	11.9	4.1	3.4	3.2	5.5	4.0
4			5.0	2.7	11.0	10.4	11.5	3.9	3.7	3.2	5.8	3.9
5			5.0	2.6	10.7	10.5	11.2	3.9	3.9	3.2	6.0	4.1
6			4.6	2.5	10.4	10.4	11.0	3.9	4.0	3.1	6.3	3.9
7			4.4	2.7	10.0	10.0	10.7	3.9	4.2	3.0	6.4	3.8
8			4.4	3.3	9.8	9.5	10.2	4.2	4.4	2.9	6.5	3.8
9			4.5	3.5	9.6	9.3	9.8	4.1	4.6	2.8	6.6	4.0
10			4.0	4.5	9.5	9.2	9.2	4.2	4.7	2.7	6.6	3.9
11			3.8	5.4	9.5	9.0	8.8	4.0	4.7	2.6	6.5	3.4
12			4.0	6.2	9.6	8.7	8.5	3.9	4.6	2.6	6.4	3.5
13			4.6	7.0	9.8	8.5	8.2	3.8	4.6	2.6	6.2	3.6
14			6.4	7.5	10.0	8.6	7.9	3.7	4.5	2.7	6.0	3.7
15			6.8	8.0	10.5	8.8	7.8	3.4	4.4	2.8	5.9	3.5
16			6.9	8.3	10.5	9.1	7.8	3.3	4.4	2.7	5.8	3.4
17			6.6	8.5	10.5	9.4	7.8	3.2	4.4	2.6	5.6	2.6
18			6.9	8.7	10.6	9.7	7.6	3.1	4.4	2.6	5.3	2.3
19			7.0	8.9	10.6	10.3	7.2	3.0	4.3	2.6	5.2	1.8
20			7.7	9.1	10.5	10.9	6.9	2.9	4.2	2.6	5.0	1.7
21			8.0	9.1	10.0	11.7	6.7	2.8	4.3	2.6	4.9	1.8
22			7.6	9.2	9.6	12.3	6.5	2.8	4.3	2.5	4.8	1.7
23			7.0	9.3	9.0	12.7	6.1	2.7	4.3	2.4	4.6	1.5
24			6.4	9.4	8.7	13.0	6.0	2.6	4.3	2.5	4.5	1.1
25			5.7	9.6	8.3	13.2	5.8	2.6	4.3	2.5	4.4	1.1
26			4.0	9.9	8.1	13.3	5.7	2.6	4.2	2.6	4.3	1.3
27			4.5	10.2	7.9	13.3	5.5	2.8	4.0	3.0	4.2	1.7
28			4.1	10.8	8.0	13.2	5.3	2.9	3.8	3.4	4.2	2.0
29			3.9	10.9	9.4	13.1	4.8	3.0	3.8	3.8	4.2	2.9
30			3.7	11.0	10.2	13.0	4.5	3.1	3.8	4.3	4.1	3.4
31			3.4		10.9		4.4	3.1		4.6		4.0

DAILY RIVER STAGES.

Mississippi River system—Mississippi River—Galland, Iowa.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1				3.0	2.7	2.5	4.2	1.4	0.9	0.5	1.4	0.5
2				2.5	2.8	2.6	4.0	1.4	0.8	0.5	1.4	0.6
3				2.8	2.8	2.6	3.8	1.3	0.8	0.5	1.4	0.5
4				2.8	2.8	2.5	3.6	1.3	0.8	0.5	1.4	0.6
5				2.8	2.8	2.4	3.4	1.2	0.9	0.5	1.4	-2.1
6				2.7	2.9	2.3	3.3	1.2	1.1	0.4	1.5	-2.1
7				2.7	2.9	2.3	3.1	1.5	1.1	0.4	1.5	-0.4
8				2.6	2.8	2.2	3.1	1.4	1.1	0.4	1.4	0.5
9				2.8	2.6	2.3	2.8	1.3	1.0	0.4	1.4	Frozen.
10				2.9	2.5	2.6	2.8	1.2	0.9	0.4	1.4	
11				2.8	2.4	3.0	2.5	1.1	0.9	0.4	1.4	
12				2.8	2.4	3.2	2.3	1.1	0.8	0.4	1.3	
13				2.8	2.3	3.0	2.3	1.0	0.7	0.5	1.3	
14				2.8	2.3	2.9	2.2	1.1	0.6	0.4	1.3	
15				2.7	2.3	2.9	2.0	1.2	0.6	0.4	1.3	
16				2.8	2.4	3.0	2.0	1.1	0.6	0.4	1.3	
17				2.7	2.4	3.3	1.9	3.2	0.6	0.5	1.3	
18				2.7	2.4	3.3	1.8	3.2	0.6	0.5	1.3	
19				2.6	2.4	3.3	1.8	2.7	0.6	0.6	1.3	
20				2.5	3.3	3.4	1.7	2.4	0.6	0.7	1.3	
21				2.5	3.3	3.5	1.7	2.3	0.6	0.7	1.3	
22				2.4	3.1	3.7	1.7	1.9	0.7	0.7	1.3	
23				2.5	2.9	3.8	1.8	1.6	0.8	0.8	1.3	
24				2.6	2.8	4.0	2.5	1.4	0.7	0.8	1.3	
25				2.6	2.7	4.0	2.1	1.6	0.7	0.8	1.2	
26				2.7	2.5	4.3	1.9	1.5	0.6	1.2	1.2	
27				2.7	2.5	4.4	1.8	1.4	0.6	1.2	1.2	
28				2.7	2.3	4.3	1.8	1.2	0.6	1.2	1.2	
29				2.7	2.2	4.2	1.6	1.2	0.6	1.3	0.5	
30				2.7	2.2	4.2	1.7	1.1	0.6	1.3	0.5	
31					2.3		1.5	1.1		1.4		

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	1.9	5.5	5.6	6.5	1.8	1.1	1.5	1.8	1.6
2				1.9	5.5	5.9	6.4	1.8	1.2	1.5	1.8	1.5
3				1.6	5.5	6.1	6.3	1.7	1.2	1.5	2.0	1.5
4				1.5	5.6	6.0	6.1	1.6	1.2	1.3	2.2	1.4
5				1.4	5.7	5.8	6.0	1.6	1.3	1.2	2.3	1.4
6				1.4	5.5	5.8	5.9	1.6	1.4	1.1	2.4	1.4
7				1.6	5.4	5.7	5.8	1.6	1.4	1.1	2.5	1.4
8				1.7	5.4	5.4	5.5	1.7	1.6	1.1	2.6	1.4
9				1.8	5.2	5.2	5.3	1.8	1.6	1.1	2.7	1.4
10				2.0	5.0	5.0	5.1	1.7	1.8	1.1	2.8	1.4
11			1.6	2.5	4.8	4.9	4.8	1.6	1.8	1.0	2.8	
12			2.1	2.6	4.8	4.6	4.5	1.6	1.8	1.0	2.8	1.4
13			3.1	3.1	4.8	4.2	4.4	1.6	1.8	1.0	2.8	1.4
14			2.8	3.5	4.7	4.1	4.1	1.6	1.8	1.0	2.8	1.4
15			3.0	4.0	5.2	4.4	3.8	1.4	1.8	1.0	2.7	
16			3.0	4.2	5.0	4.4	3.6	1.4	1.7	1.0	2.5	
17			3.9	4.4	5.2	4.3	3.6	1.2	1.7	1.0	2.4	
18			4.6	4.5	5.4	4.4	3.6	1.2	1.7	1.0	2.4	
19			4.8	4.6	5.6	4.5	3.6	1.2	1.7	0.9	2.3	
20			4.2	4.6	5.6	4.8	3.4	1.2	1.7	0.9	2.2	1.4
21			4.2	4.6	5.9	5.0	3.2	1.3	1.6	0.9	2.2	0.9
22			4.8	4.7	6.1	5.3	3.0	1.2	1.6	0.9	2.2	0.7
23			4.7	4.7	5.6	5.6	2.9	1.1	1.6	0.9	2.2	0.6
24			4.3	4.8	5.2	5.9	2.8	1.0	1.6	0.9	2.1	0.6
25			3.7	4.8	5.1	6.2	2.7	1.0	1.6	0.9	2.0	0.6
26			3.4	4.8	4.6	6.4	2.6	1.0	1.6	0.9	2.0	0.5
27			3.0	4.8	4.4	6.5	2.4	1.0	1.6	1.2	1.8	0.4
28			2.5	5.5	4.4	6.6	2.4	0.9	1.5	1.2	1.7	0.4
29			2.3	5.5	4.4	6.7	2.2	1.0	1.6	1.2	1.7	0.6
30			2.1	5.6	5.1	6.5	2.1	1.1	1.5	1.4	1.6	0.9
31			1.9		5.4		2.0	1.0		1.6		Frozen.

DAILY RIVER STAGES.

149

Mississippi River system—Mississippi River—Keokuk, Iowa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.2	0.4	4.0	0.3	7.0	11.5	6.0	6.0	1.8	1.6	2.1	2.1
2	-0.9	0.3	3.5	0.3	7.6	11.8	6.0	5.4	1.6	1.5	2.4	1.1
3	-1.4	-0.5	2.5	0.3	8.0	11.9	5.9	6.0	1.4	1.5	2.4	1.1
4	Frozen.	-0.2	2.3	0.3	8.4	11.9	5.8	5.9	1.2	1.5	2.7	0.4
5		0.1	2.0	0.3	9.0	11.6	5.6	5.4	1.0	1.4	2.8	0.5
6		0.2	2.0	0.4	9.4	11.3	5.5	5.1	0.8	1.4	2.6	0.7
7		0.2	1.5	0.4	9.5	10.8	5.3	4.4	0.8	1.4	2.6	0.4
8		0.2	1.5	0.4	9.6	10.6	5.0	4.0	0.6	1.3	2.6	0.6
9		0.2	1.3	0.8	9.6	10.1	4.9	3.8	0.5	1.2	2.6	0.6
10		0.2	1.5	1.4	9.6	9.6	4.6	3.1	0.5	1.2	2.3	0.6
11		0.2	1.8	1.6	9.4	9.2	4.4	2.8	0.6	1.2	2.0	1.4
12		0.5	1.5	1.7	9.3	8.9	4.0	2.5	0.7	1.0	2.2	2.1
13		-0.5	1.1	1.9	9.2	8.5	3.7	2.4	0.6	0.8	2.2	2.8
14		-0.1	0.8	1.9	9.1	8.2	3.5	2.3	0.5	0.7	2.4	3.1
15		-0.3	0.8	1.9	8.9	7.9	3.5	2.2	0.5	0.7	2.8	4.5
16	3.7	-0.1	0.2	1.7	8.8	7.6	3.2	2.5	0.5	0.6	2.8	4.8
17	3.0	-0.2	0.0	1.6	9.0	7.4	2.8	2.6	2.5	0.6	3.0	4.8
18	2.6	0.0	0.2	1.9	10.4	7.2	2.7	4.7	2.2	0.5	3.0	5.0
19	2.5	0.0	0.5	1.9	10.7	7.0	2.5	4.6	3.4	0.5	3.0	4.6
20	3.1	-0.2	0.8	2.0	10.6	6.8	2.7	4.4	3.6	0.5	3.0	4.0
21	2.4	Frozen.	0.8	2.2	11.0	6.7	2.5	4.3	3.5	0.5	2.9	4.4
22	2.1		0.0	2.4	10.6	6.6	2.5	4.3	3.0	0.3	2.8	3.9
23	2.5		0.4	2.5	10.3	6.5	2.5	3.1	2.7	0.3	2.5	3.8
24	2.2	1.8	0.3	3.4	9.8	6.5	3.1	3.2	2.4	0.3	2.5	3.5
25	2.5	2.7	0.4	4.1	9.5	6.5	3.1	3.1	2.2	0.1	2.4	3.2
26	2.2	2.7	0.3	4.5	9.4	6.3	3.2	2.8	2.1	0.1	2.4	3.3
27	2.7	3.8	0.4	5.4	9.2	6.2	3.4	2.7	1.9	0.1	2.2	3.0
28	2.3	4.8	0.4	5.5	9.5	6.0	3.6	2.5	1.8	0.1	2.2	3.2
29	2.1	4.5	0.5	6.2	10.2	6.0	3.5	2.4	1.7	0.1	2.1	3.1
30	1.5		0.4	6.5	10.8	6.0	3.7	2.2	1.7	0.4	1.3	3.0
31	0.9		0.3		11.1		4.0	2.0		0.7		3.0

1897.

1	2.8	Frozen.	3.8	12.9	16.2	5.6	7.0	7.4	2.7	1.8	1.2	0.9
2	3.2		3.5	13.5	15.5	5.7	6.9	7.2	2.6	1.8	1.2	-0.1
3	5.1		2.9	13.9	15.0	5.9	6.9	6.9	2.6	1.8	1.2	-0.3
4	6.0	8.0	2.7	13.7	14.4	6.0	6.7	6.7	2.6	1.8	1.6	-0.9
5	5.5	7.8	2.8	13.7	13.7	5.9	6.8	6.6	2.7	1.8	1.6	-1.0
6	5.0	7.8	2.9	14.0	13.0	5.9	7.1	6.4	3.0	1.8	1.7	-2.0
7	3.5	7.8	2.4	14.1	12.5	5.8	6.7	6.3	2.9	1.8	1.8	-1.6
8	3.2	7.0	2.5	13.5	12.1	5.7	6.5	6.2	2.8	1.6	1.8	-1.2
9	3.2	6.9	2.9	13.0	11.4	5.6	6.4	6.2	2.5	1.6	1.8	-1.0
10	3.1	7.2	3.2	13.0	10.9	5.4	6.3	6.1	2.3	1.6	1.8	-0.3
11	3.0	7.1	4.6	12.8	10.5	5.2	6.2	6.2	2.2	1.5	1.5	-0.5
12	3.0	6.7	5.0	12.7	10.0	5.0	6.1	6.3	2.1	1.5	1.5	-0.3
13	2.9	6.6	6.1	12.8	9.9	4.8	6.0	6.3	2.0	1.5	1.4	-0.5
14	2.8	6.2	7.0	13.1	9.7	4.8	6.2	6.3	1.9	1.4	1.4	0.0
15	2.9	7.0	7.4	13.6	9.4	4.9	6.4	6.3	1.8	1.4	1.4	0.2
16	2.4	6.2	7.7	14.0	9.0	5.1	6.4	6.2	1.7	1.4	1.3	0.2
17	2.8	5.6	7.9	14.4	8.6	5.3	6.4	6.0	1.8	1.4	1.3	0.3
18	3.0	4.9	8.3	15.0	8.2	5.4	6.2	5.9	1.7	1.3	1.2	0.1
19	3.0	4.6	9.0	15.3	7.9	5.5	6.2	5.7	1.7	1.2	1.2	-0.1
20	3.8	4.3	9.6	15.5	7.5	5.6	6.1	5.5	1.6	1.2	1.2	-0.1
21	3.6	4.1	9.7	15.6	7.2	5.8	6.3	5.2	2.0	1.2	1.2	0.0
22	3.8	4.5	9.8	15.5	6.9	5.9	6.4	5.0	2.2	1.2	1.2	-0.3
23	2.9	4.3	10.4	15.7	6.6	6.0	6.5	4.8	2.2	1.2	1.1	Frozen.
24	2.7	4.2	11.2	16.5	6.5	6.1	7.6	4.5	2.1	1.2	1.0	
25	2.5	4.4	11.8	17.2	6.3	6.5	7.7	4.2	2.0	1.2	1.1	
26	1.5	4.5	12.2	18.1	6.0	6.4	7.8	3.9	2.0	1.2	1.0	
27	1.3	3.9	13.0	18.4	5.9	6.5	7.6	3.7	1.9	1.2	1.0	
28	1.2	4.4	13.4	18.4	5.9	6.6	7.5	3.5	1.8	1.2	1.0	
29	Frozen.		13.1	17.9	5.7	6.6	7.6	3.2	1.8	1.2	0.9	
30			12.7	17.2	5.5	6.5	7.6	3.0	1.8	1.2	0.9	
31			12.3		5.5		7.5	2.8		1.2		

DAILY RIVER STAGES.

Mississippi River system—Mississippi River, Keokuk, Iowa—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	1.9	4.9	4.4	4.1	7.2	2.1	1.1	0.0	1.7	0.5
2			1.5	4.7	4.5	4.4	6.9	2.0	0.9	-0.1	2.0	-0.2
3			1.5	4.7	4.5	4.3	6.7	1.9	0.7	-0.2	2.1	-1.2
4			1.1	4.6	4.5	4.1	6.4	1.8	0.6	-0.2	1.9	-2.0
5			1.4	4.6	4.5	3.9	6.0	1.6	1.3	-0.3	1.9	-1.4
6			1.2	4.5	4.6	3.8	5.7	1.6	2.4	-0.4	2.2	-0.3
7			1.2	4.9	4.7	3.7	5.4	2.0	2.0	-0.4	2.0	-0.3
8			1.4	4.4	4.4	3.6	5.2	2.1	1.3	-0.4	1.7	2.4
9			1.9	4.6	4.2	3.3	4.8	1.7	1.2	-0.4	2.0	Frozen.
10			2.8	4.7	4.1	4.8	4.5	1.6	1.1	-0.4	2.0	
11			4.1	4.4	4.0	5.5	4.2	1.5	0.9	-0.4	1.9	
12			5.4	4.6	3.9	5.8	4.0	1.4	0.7	-0.2	1.7	
13		9.8	6.8	4.6	3.7	5.3	3.7	1.4	0.5	-0.2	1.7	
14		4.8	7.6	5.1	3.5	5.6	3.5	1.7	0.5	-0.4	1.7	
15		6.3	7.8	4.9	3.6	5.4	3.3	2.1	0.5	-0.3	1.8	
16		5.8	7.9	4.7	4.1	5.5	3.1	1.5	0.4	-0.4	1.8	
17		6.0	7.6	4.5	4.2	5.8	2.9	4.9	0.3	0.1	1.6	
18	7.9	5.0	7.5	4.3	3.9	5.8	2.9	5.2	0.3	0.3	1.6	
19	6.0	5.3	8.0	4.2	4.3	5.7	2.8	4.4	0.3	0.2	1.6	
20	5.9	4.9	8.5	4.2	6.6	5.9	2.7	4.0	0.3	0.3	1.6	
21	4.7	3.6	7.8	3.9	6.5	6.1	2.7	3.4	0.3	0.3	1.5	
22	4.4	3.5	7.3	3.8	5.9	6.3	2.7	2.9	0.4	0.3	1.5	
23	7.2	3.4	7.1	4.5	5.5	6.7	2.8	2.4	0.7	0.5	1.5	
24	Frozen.	2.9	6.6	4.3	5.0	6.8	3.1	2.4	0.7	0.6	1.0	
25		2.5	6.2	4.3	4.6	6.9	3.3	2.2	0.6	0.9	0.6	
26		2.4	5.6	4.3	4.4	7.6	3.1	2.2	0.4	1.7	0.5	
27		2.2	5.8	4.3	4.0	7.9	2.9	2.0	0.4	1.8	0.4	
28		2.2	6.8	4.3	3.7	7.7	2.8	1.7	0.3	1.8	0.4	
29			6.1	4.4	3.5	7.4	2.6	1.6	0.1	1.9	0.4	
30			5.6	4.4	3.5	7.2	2.5	1.4	0.0	1.7	0.4	
31			5.3		3.7		2.3	1.4		1.7		

1899.

1	Frozen.	Frozen.	Frozen.	2.9	9.5	10.3	11.8	3.1	1.5	2.0	2.4	2.4
2				2.6	9.5	10.8	11.5	3.0	1.5	1.9	2.5	2.3
3				2.3	9.6	11.0	11.4	2.8	1.6	1.8	3.1	2.3
4				2.2	9.7	11.0	11.2	2.6	1.7	1.7	3.2	2.3
5				2.2	9.8	10.7	11.0	2.7	1.8	1.7	3.6	2.2
6				2.1	9.7	10.4	10.8	2.6	2.0	1.4	3.7	2.0
7				2.4	9.4	10.2	10.4	2.5	2.1	1.4	4.0	2.0
8				3.0	9.5	10.0	10.1	2.8	2.6	1.3	4.2	2.0
9				3.0	9.2	9.5	9.7	2.9	2.6	1.3	4.4	1.9
10				3.1	8.9	9.0	9.4	2.8	2.7	1.2	4.5	1.9
11			3.5	3.5	8.6	8.5	8.9	2.8	2.7	1.1	4.5	1.9
12			3.8	4.2	8.4	8.3	8.3	2.8	2.8	1.0	4.6	2.3
13			4.5	5.2	8.3	7.9	7.6	2.7	2.8	0.9	4.5	1.9
14			4.5	6.2	8.2	7.7	7.1	2.5	2.7	0.9	4.3	1.9
15			5.5	7.0	9.1	8.2	6.7	2.2	2.6	0.9	4.3	1.1
16			5.5	7.5	9.0	7.7	6.5	2.1	2.6	1.0	4.1	1.2
17			6.5	7.7	9.2	*7.7	6.4	2.0	2.6	1.1	3.8	1.0
18			8.0	8.0	9.5	7.9	6.3	1.8	2.6	1.0	3.7	1.5
19			*8.5	8.1	9.8	8.3	6.2	1.7	2.5	0.9	3.5	0.8
20			8.4	8.1	10.1	8.6	6.0	1.7	2.5	0.8	3.4	0.0
21			8.3	8.2	11.2	9.1	5.6	1.8	2.5	0.8	3.3	-0.1
22			8.2	8.2	12.4	9.5	5.3	1.6	2.4	0.8	3.3	-0.3
23			7.9	8.2	11.2	10.1	5.1	1.5	2.4	0.7	3.2	-0.1
24			7.2	8.2	10.0	10.6	4.9	1.4	2.4	0.7	3.0	-0.2
25			6.3	8.3	9.1	11.0	4.6	1.4	2.5	0.7	2.6	-0.5
26			5.8	8.3	8.5	11.4	4.4	1.2	2.5	0.7	2.6	-1.4
27			5.0	8.4	8.3	11.7	4.2	1.2	2.4	1.0	2.5	-1.5
28			4.4	9.0	7.8	11.9	4.1	1.2	2.3	1.0	2.4	-1.7
29			3.7	9.5	8.2	*12.0	3.9	1.2	2.2	1.0	2.4	-0.8
30			3.0	9.6	9.0	12.0	3.6	1.4	2.0	1.5	2.4	2.6
31			3.2		9.8		*3.3	1.4		2.4		Frozen.

*2.0 at 5 p. m.

*7.6 at 5 p. m.

*8.6 at 5 p. m.

*12.1 at 5 p. m.

*8.2 at 5 p. m.

DAILY RIVER STAGES.

151

*Mississippi River system—Mississippi River, Warsaw, Ill.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			5.0	0.9	8.1	14.0						
2			5.2	1.0	9.0	14.4						
3			5.0	1.0	9.8	14.1						
4			4.5	1.1	10.4	13.8						
5			4.4	1.1	10.8	13.6						
6			4.0	1.0	11.2	13.2						
7			3.6	0.9	11.6	12.6						
8			3.0	0.8	11.7	12.0						
9			2.8	0.8	11.8	11.9						
10			3.0	1.2	11.8	11.6						
11			2.7	1.8	11.8	11.4						
12			2.5	2.4	11.6	11.2						
13			2.1	2.5	11.6	10.8						
14			2.0	2.5	10.9	10.6						
15			1.8	2.3	11.0	10.3						
16			1.6	2.1	11.1	9.8						
17			1.3	2.0	11.2	9.6						
18			1.0	2.2	12.6	9.4						
19			0.9	2.9	13.4	9.2						
20			1.0	3.1	13.6	8.7						
21			1.2	3.3	13.8	8.6						
22			1.0	3.3	13.4	8.6						
23			0.9	3.4	13.2	8.5						
24			0.8	3.6	13.0	8.4						
25			0.8	4.2	12.8	8.3						
26			0.7	5.0	12.8	8.0						
27			0.7	5.4	12.9	7.8						
28			0.8	5.8	12.9	7.7						
29			0.9	6.7	13.0	7.6						
30			1.0	7.1	13.4	7.5						
31			1.0		13.8							

1897.

1		Frozen.	15.6	18.6	7.8							
2			16.2	18.0	7.8							
3			16.2	17.4	7.9							
4		3.8	16.4	16.8	8.2							
5		3.9	16.5	16.2	8.2							
6		4.3	16.7	15.5	8.1							
7		4.8	16.8	15.0	8.0							
8		5.4	16.3	14.4	7.9							
9		6.0	15.9	13.9	7.8							
10		6.7	15.5	13.5	7.6							
11		7.5	15.4	13.0	7.5							
12		7.8	15.3	12.8	7.5							
13		8.0	15.4	12.5	7.4							
14		8.6	15.7	12.2	7.3							
15		9.8	16.0	11.8	7.2							
16		10.5	16.4	11.5	7.1							
17		10.7	16.9	11.4	7.0							
18		10.8	17.4	11.2	7.0							
19		11.6	17.7	11.0	7.1							
20		12.4	18.0	10.6	7.1							
21		12.5	18.1	10.3	7.2							
22		12.6	18.0	9.8	7.4							
23		13.1	18.2	9.6	7.6							
24		13.9	19.0	9.2	8.0							
25		14.5	19.9	8.6	8.6							
26		15.2	20.7	8.4	8.6							
27		15.9	21.0	8.2	8.7							
28		16.2	20.9	8.1	9.0							
29		15.9	20.4	8.0	9.0							
30		15.6	19.7	7.9	9.1							
31		14.8		7.9								

DAILY RIVER STAGES.

Mississippi River system—Mississippi River, Hannibal, Mo.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.3	1.1	5.3	0.8	7.2	12.8	6.8	6.3	2.5	2.3	2.3	2.2
2	—0.3	1.4	4.7	0.8	7.7	12.9	6.8	7.3	2.2	2.2	3.3	2.0
3	—0.8	1.6	4.0	0.8	8.3	13.3	6.9	7.7	2.1	2.1	3.4	1.8
4	—0.8	1.0	3.4	0.7	8.8	13.3	6.8	8.3	1.9	2.1	3.8	1.6
5	—1.1	0.6	3.0	0.5	9.3	13.2	6.6	8.0	1.7	2.0	3.5	1.6
6	—0.7	1.3	2.6	0.7	9.7	12.8	6.5	7.4	1.4	1.9	3.1	1.2
7	—0.2	1.3	2.3	0.8	10.0	12.6	6.3	7.1	1.3	1.8	2.8	1.2
8	—0.1	1.0	2.3	0.9	10.2	12.5	6.0	6.3	1.3	1.8	2.6	1.2
9	0.1	0.9	2.1	1.1	10.3	12.1	5.8	5.4	1.1	1.7	2.6	1.1
10	0.1	0.8	2.0	1.5	10.3	11.6	5.6	4.9	1.0	1.6	2.6	1.1
11	0.4	0.8	2.1	2.4	10.3	11.0	5.3	4.3	1.0	1.6	2.5	1.3
12	0.5	0.8	2.3	2.8	10.2	10.3	4.9	3.9	1.3	1.5	2.5	1.7
13	0.6	0.8	2.2	2.8	10.0	9.8	4.6	3.6	1.5	2.0	2.5	2.3
14	0.7	0.5	1.9	2.8	9.8	9.4	4.3	3.3	1.8	2.0	2.7	3.0
15	0.7	0.5	1.4	2.8	9.7	9.1	4.1	3.3	1.3	1.6	2.9	3.3
16	0.7	0.8	1.0	2.4	9.7	8.8	3.9	3.3	1.2	1.3	3.1	4.7
17	0.8	0.9	0.8	2.3	9.8	8.5	3.9	3.3	1.3	1.2	3.3	5.3
18	0.7	0.2	0.8	2.3	10.3	8.5	3.5	5.0	3.8	1.2	3.3	5.3
19	0.6	0.2	0.8	2.3	11.5	8.3	3.7	6.3	4.6	1.1	3.3	5.3
20	0.5	0.6	1.1	2.4	12.1	7.9	6.6	6.3	5.9	0.9	3.3	5.1
21	0.5	—0.9	1.1	2.6	12.6	7.8	6.5	6.1	5.9	0.9	3.3	4.7
22	—0.3	—1.5	1.2	2.8	12.8	7.6	4.7	5.8	5.3	0.8	3.3	4.6
23	0.1	—0.5	1.0	2.9	12.8	7.4	4.1	4.7	4.6	0.8	3.2	4.6
24	0.2	1.7	0.8	3.2	12.3	7.3	4.7	3.9	4.1	0.7	3.0	4.2
25	0.1	2.7	0.8	3.8	11.7	7.3	6.8	4.1	3.7	0.7	3.0	4.0
26	—0.4	4.3	0.6	4.4	11.1	7.2	6.8	3.8	3.3	0.6	3.0	4.0
27	—0.5	4.3	0.6	5.2	10.7	7.0	6.8	3.5	2.9	0.6	2.8	4.0
28	—0.5	4.8	0.8	5.8	11.4	6.8	6.5	3.3	2.8	0.6	2.7	3.8
29	—0.3	5.6	0.7	6.3	11.8	6.8	6.3	3.1	2.7	0.6	2.7	3.8
30	—0.3	-----	0.8	6.6	11.8	6.8	5.7	2.9	2.5	0.6	2.7	3.7
31	—0.2	-----	0.9	-----	12.1	-----	5.8	2.8	-----	1.2	-----	3.4

1897.

1	3.4	3.1	4.8	14.7	19.6	6.8	7.8	8.7	3.8	2.8	1.9	1.1
2	3.3	3.8	4.8	15.8	18.6	6.9	8.4	8.4	3.7	2.8	2.2	0.8
3	8.2	4.0	4.1	16.5	17.8	7.0	8.5	8.3	3.6	2.8	2.3	0.3
4	11.0	4.1	3.5	16.6	17.4	7.0	8.3	8.1	3.5	2.8	2.3	—0.5
5	10.0	4.8	4.1	16.3	16.8	7.0	8.4	7.9	3.5	2.7	2.3	—1.2
6	8.2	4.8	4.5	16.0	16.2	7.0	8.8	7.7	3.7	2.7	2.4	—1.4
7	6.8	4.8	4.3	15.8	15.4	7.0	8.5	7.5	3.8	2.6	2.6	—1.2
8	5.3	4.6	3.8	15.8	14.8	7.0	8.2	7.4	3.8	2.5	2.6	—0.9
9	4.8	4.4	3.6	15.6	14.0	6.8	7.8	7.3	3.7	2.4	2.6	—0.2
10	4.5	4.3	4.3	15.3	13.5	6.7	7.5	7.2	3.4	2.4	2.6	0.2
11	4.3	4.3	4.6	14.9	12.9	6.4	7.4	7.2	3.3	2.4	2.5	0.2
12	4.1	4.3	6.1	14.7	12.3	6.3	7.3	7.2	3.1	2.3	2.4	0.2
13	3.7	4.2	6.7	14.5	11.9	6.1	7.2	7.2	3.0	2.3	2.3	0.3
14	3.6	3.9	7.3	14.5	11.6	6.0	7.2	7.2	2.8	2.3	2.2	0.5
15	3.5	3.8	7.8	14.5	11.2	5.9	7.2	7.2	2.8	2.2	2.2	0.6
16	3.3	3.7	8.3	14.7	10.8	6.0	7.3	7.2	2.7	2.2	2.2	0.7
17	3.7	3.8	8.8	14.9	10.4	6.2	7.3	7.2	2.7	2.2	2.1	0.8
18	5.0	3.3	9.1	15.3	10.0	6.3	7.3	7.0	2.6	2.1	2.0	—0.1
19	5.2	3.3	9.6	15.7	9.7	6.4	7.3	6.9	2.5	2.0	2.0	—0.3
20	5.2	3.5	10.7	16.1	9.3	6.5	7.3	6.7	2.5	2.0	2.0	—0.1
21	5.3	4.8	11.2	16.5	8.9	6.7	7.3	6.4	2.6	2.0	2.0	0.3
22	5.2	5.0	11.2	16.8	8.6	7.1	7.3	6.3	2.8	2.0	2.0	0.8
23	4.6	5.7	11.3	16.8	8.2	7.3	7.3	5.9	3.1	2.0	2.0	0.8
24	4.1	5.5	11.9	17.1	7.9	7.2	8.0	5.7	3.1	2.0	1.8	0.8
25	2.6	5.3	12.7	17.8	7.8	8.0	9.5	5.4	3.0	2.0	1.8	1.3
26	2.0	5.1	13.2	18.8	7.7	8.2	9.8	5.2	3.0	2.0	1.8	1.6
27	1.4	4.9	13.7	19.7	7.5	7.8	9.4	4.9	2.9	2.0	1.8	1.5
28	0.1	4.5	14.3	20.6	7.4	7.8	8.9	4.7	2.9	1.9	1.8	1.7
29	0.1	-----	14.7	20.8	7.2	7.8	8.8	4.4	2.8	1.9	1.6	1.8
30	0.6	-----	14.6	20.4	6.9	7.6	8.9	4.2	2.8	1.9	1.4	1.8
31	2.2	-----	14.4	-----	6.8	-----	8.8	4.0	-----	1.9	-----	1.8

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, Hannibal, Mo.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.0	0.7	2.8	7.1	5.7	5.2	8.5	3.5	2.4	1.5	3.1	0.8
2	2.9	-0.1	2.8	6.6	6.5	5.6	8.3	3.3	2.3	1.4	3.0	0.7
3	2.7	0.6	2.3	6.2	6.2	5.8	8.2	3.3	2.1	1.2	3.0	0.7
4	2.8	0.5	2.2	6.1	6.0	5.6	7.8	3.3	1.9	1.1	3.1	0.2
5	2.8	0.8	2.0	6.2	5.8	5.4	7.5	3.2	1.9	1.1	3.3	-0.4
6	2.7	1.2	1.9	6.0	6.2	5.1	7.2	3.0	2.7	0.9	3.4	-0.6
7	2.3	1.1	1.9	5.9	6.4	5.0	6.9	3.0	4.2	0.9	3.4	-0.2
8	2.2	1.0	1.9	5.7	6.2	4.9	7.2	3.3	3.9	0.9	3.1	0.0
9	2.0	1.6	2.2	5.7	5.8	5.0	6.8	3.3	3.3	0.8	3.1	-0.3
10	1.8	1.6	2.8	5.8	5.4	5.3	6.4	3.0	2.9	0.8	3.2	-0.2
11	1.8	2.8	4.3	5.8	5.3	6.9	5.8	2.9	2.7	0.8	3.1	0.0
12	1.7	3.5	7.1	5.8	5.4	7.8	5.5	2.7	2.4	0.8	3.0	0.0
13	1.5	4.0	7.9	5.7	5.3	7.9	5.3	2.7	2.3	0.8	3.0	0.7
14	2.0	4.7	8.8	6.6	5.1	7.6	5.0	2.7	2.1	0.8	3.0	1.4
15	2.4	4.8	9.2	7.6	6.3	7.8	4.8	2.7	1.9	0.8	2.9	1.4
16	2.3	5.3	9.3	7.1	6.7	7.5	4.6	3.6	1.8	0.8	2.8	1.4
17	2.3	5.8	9.1	6.5	6.8	7.3	4.4	3.2	1.8	0.9	2.8	1.6
18	1.8	6.1	8.9	6.0	6.3	7.4	4.3	5.8	1.7	1.3	2.8	1.7
19	2.2	5.5	9.3	5.8	6.0	7.3	4.2	6.3	1.7	2.2	2.8	1.7
20	2.7	5.5	10.8	5.7	9.1	7.3	4.1	5.6	1.5	2.6	2.8	1.8
21	2.5	5.0	10.8	5.4	11.7	7.3	4.0	5.2	1.5	2.8	2.7	2.1
22	2.6	4.4	10.0	5.2	10.8	7.4	3.9	4.6	1.9	2.4	2.7	2.2
23	2.3	4.3	9.6	5.6	9.8	7.7	3.9	4.1	2.0	2.2	2.7	2.2
24	1.6	4.1	8.8	6.4	9.0	8.0	4.0	3.7	2.4	2.2	2.7	2.2
25	1.5	3.8	8.1	6.3	8.0	8.1	4.3	3.5	2.4	2.2	2.3	2.7
26	1.8	3.3	7.4	6.0	7.1	8.3	4.4	3.4	2.5	2.2	2.1	2.6
27	1.3	3.2	8.0	5.8	6.4	9.1	4.3	3.3	2.4	3.8	1.8	2.5
28	1.2	2.9	10.2	5.6	5.7	9.3	4.2	3.2	2.2	3.9	1.9	2.2
29	1.2		10.3	5.5	5.2	9.1	4.0	2.9	1.8	3.8	1.5	2.1
30	1.0		8.9	5.5	4.9	8.8	3.9	2.8	1.6	3.4	1.2	1.7
31	0.9		7.8		4.8		3.8	2.6		3.3		1.1

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-0.1	1.8	Frozen.	4.6	11.2	11.6	13.3	4.8	2.4	3.2	3.0	3.3
2	0.8	1.8	4.5	4.2	11.0	12.2	13.2	4.4	2.4	3.2	3.2	3.3
3	1.8	Frozen.	4.5	4.0	11.0	12.5	13.0	4.3	2.6	3.0	3.7	3.3
4	2.2		4.5	3.8	11.2	12.7	12.8	4.1	2.6	2.9	3.9	3.2
5	1.8		5.1	3.6	11.2	12.6	12.8	3.9	2.8	2.8	4.1	3.5
6	1.8		5.1	6.5	11.2	12.2	12.5	4.1	2.8	2.6	4.4	3.1
7	1.2		4.1	4.2	11.1	12.0	12.3	3.8	3.0	2.5	4.7	3.1
8	1.3		3.2	5.2	11.3	11.8	12.0	4.3	3.2	2.5	4.8	3.1
9	1.0		3.2	5.7	11.2	11.8	11.6	7.3	3.6	2.5	5.2	3.0
10	0.8		4.1	5.5	10.8	11.3	11.2	6.9	3.6	2.5	5.3	3.0
11	0.8		4.2	5.3	10.5	10.7	10.8	6.1	3.7	2.5	5.3	3.0
12	0.7		5.0	5.4	10.2	10.1	10.3	5.6	3.7	2.4	5.5	3.0
13	0.3		5.7	5.8	9.8	9.7	9.7	5.1	3.8	2.2	5.5	3.0
14	0.3		6.4	6.8	9.7	9.3	9.0	4.3	3.8	2.1	5.4	2.9
15	0.8		6.6	7.8	9.7	9.4	8.5	4.0	3.8	2.1	5.3	2.9
16	0.6		7.8	8.2	10.6	10.2	8.1	3.8	3.8	2.1	5.2	2.8
17	0.8		7.9	9.0	10.5	9.7	8.0	3.5	3.7	2.1	5.2	2.8
18	0.8		8.2	9.2	10.7	9.2	7.8	3.3	3.8	2.1	5.0	2.6
19	0.6		9.8	9.3	11.0	9.2	7.6	3.2	3.8	2.2	4.8	2.6
20	0.2		10.4	9.5	11.4	9.8	7.4	3.0	3.7	2.2	4.6	2.3
21	0.2		10.2	9.6	13.0	10.1	7.2	3.0	3.6	2.2	4.5	1.8
22	0.8		9.9	9.6	14.2	10.5	6.8	3.0	3.5	2.0	4.3	1.7
23	1.0		9.7	9.6	15.0	10.8	6.6	2.9	3.5	2.0	4.3	1.1
24	1.2		9.3	9.7	14.8	11.3	6.3	2.8	3.5	2.0	4.1	0.9
25	0.7		8.5	9.8	13.6	11.8	6.1	2.7	3.5	1.9	4.0	0.7
26	1.0		8.0	9.8	12.2	12.2	5.8	2.5	3.5	1.9	4.0	0.5
27	1.0		6.9	9.8	11.8	12.6	5.7	2.5	3.5	1.9	3.7	-0.6
28	0.6		6.2	10.8	11.2	12.8	5.4	2.5	3.4	2.1	3.6	-1.2
29	-1.3		5.6	11.2	11.2	13.0	5.2	2.4	3.2	2.1	3.6	-1.4
30	-0.9		5.1	11.2	10.7	13.2	5.1	2.4	3.2	2.3	3.4	-1.5
31	0.2		5.0		10.8		4.8	2.4		2.7		Frozen.

DAILY RIVER STAGES.

Mississippi River system—Mississippi River, Grafton, Ill.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.7	3.8	8.0	4.2	8.5	16.7	8.8	8.6	5.1	4.6	2.8	5.0
2	7.2	4.6	8.3	4.1	8.7	16.5	8.7	9.3	5.0	4.4	3.0	4.6
3	6.5	5.6	8.0	4.0	9.0	16.6	8.9	9.7	4.8	4.3	4.1	4.4
4	5.4	6.0	7.7	3.9	9.5	16.7	9.1	10.2	4.5	4.2	5.0	4.2
5	4.9	6.0	7.4	3.8	10.0	16.8	9.3	10.8	4.3	4.2	5.9	4.1
6	4.4	5.6	6.9	3.8	10.4	16.8	9.6	10.8	4.0	4.2	5.6	3.9
7	4.4	5.3	6.5	3.7	10.7	16.6	9.3	10.4	3.8	4.2	5.3	3.8
8	4.4	5.5	6.3	3.7	11.0	16.5	8.9	10.1	3.5	4.1	5.0	3.7
9	4.4	5.3	6.1	3.7	11.2	-----	8.5	9.8	3.4	4.1	4.8	3.6
10	4.4	5.2	5.9	3.8	11.4	17.2	8.2	9.1	3.3	4.1	4.6	3.5
11	4.4	4.9	5.8	3.9	11.5	16.9	8.0	8.3	3.1	4.2	4.9	3.4
12	4.7	4.8	5.7	4.8	11.5	16.0	7.7	7.7	3.0	4.2	5.2	3.5
13	4.8	4.4	5.7	5.5	11.4	15.1	7.5	7.6	3.0	4.3	5.5	3.5
14	4.8	7.0	5.7	6.5	11.2	14.3	6.9	7.3	3.0	4.4	5.8	3.4
15	4.9	7.4	5.7	6.2	11.0	13.4	6.6	6.8	3.4	4.8	6.0	4.4
16	4.8	6.9	5.5	5.7	10.9	12.7	6.1	6.6	3.7	5.1	6.3	5.1
17	4.7	6.6	5.3	5.5	10.8	12.2	5.9	6.4	3.6	4.9	6.6	5.6
18	4.7	6.1	5.0	5.4	10.8	11.9	5.8	6.2	4.1	4.6	6.9	6.5
19	4.6	5.5	4.8	5.1	11.1	11.6	5.6	6.5	4.9	4.3	7.2	7.0
20	4.5	4.4	4.6	5.0	13.0	11.3	5.9	7.7	6.1	4.0	7.5	7.0
21	4.3	3.4	4.5	5.1	15.0	11.0	10.4	8.3	6.1	3.8	7.5	6.9
22	4.1	3.4	4.6	5.1	15.9	10.7	12.5	8.4	7.7	3.6	7.3	6.4
23	4.0	3.4	4.7	5.3	16.5	10.4	12.4	8.2	7.6	3.5	7.2	6.2
24	4.0	3.3	4.8	5.4	17.1	10.2	11.6	7.8	7.2	3.3	7.0	6.2
25	4.2	3.9	4.7	5.5	17.4	9.7	10.4	7.1	6.5	3.2	6.8	6.1
26	4.0	4.8	4.5	5.7	17.5	9.5	10.1	6.6	5.9	3.1	6.5	5.9
27	3.8	5.4	4.4	6.0	17.0	9.5	10.0	6.4	-----	3.0	6.3	5.7
28	3.6	6.7	4.2	6.8	17.4	9.5	9.7	6.1	5.0	2.9	6.0	5.7
29	3.5	7.7	4.2	7.4	17.9	9.3	9.4	5.9	5.0	2.8	5.8	5.5
30	3.4	-----	4.2	8.0	18.1	8.9	9.0	5.6	4.6	2.7	5.5	5.5
31	3.5	-----	4.2	-----	17.4	-----	8.7	5.3	-----	2.6	-----	5.4

1897.

1	5.3	4.8	8.2	18.8	23.0	8.8	11.4	9.9	5.0	3.6	2.8	2.9
2	5.2	4.9	8.4	19.7	23.2	8.7	11.6	9.8	4.9	3.6	2.9	2.7
3	7.8	5.5	8.7	21.1	23.1	8.6	11.9	9.5	4.7	3.4	3.0	2.5
4	12.6	6.0	8.7	22.0	22.8	8.5	12.2	9.2	4.6	3.4	3.2	2.2
5	16.2	6.6	10.0	22.4	22.4	8.5	12.1	9.1	4.5	3.4	3.4	1.9
6	17.0	6.5	12.1	22.6	21.8	8.4	11.9	9.0	4.4	3.3	3.5	1.3
7	16.6	7.0	13.2	22.4	21.1	8.4	11.4	8.7	4.4	3.3	3.6	0.6
8	15.2	7.2	12.6	22.0	20.3	8.4	11.1	8.5	4.5	3.3	3.6	0.2
9	12.5	7.0	11.6	21.9	19.5	8.4	10.8	8.2	4.7	3.2	3.7	0.1
10	10.3	6.9	11.5	21.9	18.9	8.3	10.3	8.1	4.5	3.2	3.6	0.1
11	9.6	6.7	11.3	21.9	18.0	8.2	9.7	8.0	4.3	3.2	3.5	0.7
12	9.3	6.8	10.9	21.5	17.2	8.0	9.6	7.9	4.2	3.1	3.5	1.1
13	9.0	6.9	10.9	21.1	16.3	7.8	9.4	8.0	4.1	3.1	3.4	1.6
14	8.7	7.2	11.1	20.7	15.4	7.6	9.1	8.0	4.0	3.1	3.4	1.8
15	8.5	7.4	11.4	20.2	14.5	7.4	8.9	8.0	3.8	3.1	3.4	1.8
16	8.2	7.3	11.7	19.9	13.9	7.3	8.7	7.9	3.7	3.1	3.5	1.8
17	8.0	7.5	11.9	19.6	13.5	7.3	8.7	7.9	3.7	3.0	3.4	1.9
18	8.2	7.8	12.3	19.5	13.0	7.3	8.7	7.8	3.6	3.0	3.2	1.4
19	9.9	8.1	12.7	19.5	12.5	7.3	8.7	7.7	3.5	3.0	3.1	1.6
20	10.3	7.7	13.2	19.5	12.0	7.5	8.7	7.6	3.4	3.0	3.1	3.4
21	10.2	8.0	13.5	19.6	11.5	7.7	8.6	7.3	3.4	2.9	3.1	3.7
22	10.1	8.2	14.8	19.8	11.0	7.9	8.6	7.1	3.3	2.9	3.1	3.6
23	9.9	8.5	15.2	20.0	10.7	8.2	8.5	6.9	3.5	2.9	3.1	3.5
24	9.8	8.7	15.3	20.2	10.3	8.7	8.6	6.7	3.7	2.9	3.1	3.5
25	8.8	8.8	15.8	20.3	9.9	9.5	9.6	6.4	3.9	2.9	3.0	3.5
26	7.9	8.8	16.4	20.4	9.7	10.2	11.9	6.2	3.8	2.9	3.0	3.8
27	6.8	8.5	17.0	20.5	9.5	10.4	13.2	6.0	3.7	2.9	3.0	4.2
28	6.8	8.2	17.5	20.9	9.4	10.5	13.2	5.7	3.7	2.8	3.0	4.7
29	5.2	-----	17.9	21.8	9.3	10.6	12.9	5.4	3.7	2.8	3.0	4.9
30	5.0	-----	18.2	22.5	9.1	11.1	11.0	5.1	3.6	2.8	3.0	5.0
31	4.9	-----	18.6	-----	8.9	-----	10.0	5.0	-----	2.8	-----	5.2

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, Grafton, Ill.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.9	4.0	6.9	15.5	9.8	11.0	12.5	5.5	4.0	4.1	5.4	4.2
2	4.6	3.4	6.7	14.8	9.7	10.9	12.2	5.2	3.9	3.8	5.2	4.4
3	3.9	3.0	6.5	14.2	10.5	11.2	11.7	5.2	3.6	3.6	5.1	3.8
4	4.0	3.0	6.4	13.8	11.2	11.4	11.0	5.1	3.4	3.5	5.0	3.7
5	4.2	3.3	6.2	13.8	11.3	11.5	10.7	4.8	3.3	3.2	4.9	3.4
6	4.4	3.6	6.1	13.8	11.2	11.2	10.4	4.5	3.4	3.0	5.2	2.9
7	4.5	3.9	6.0	13.6	11.2	10.9	10.3	4.3	3.7	2.8	5.5	2.6
8	4.5	4.1	5.9	13.5	11.0	10.6	11.0	4.3	4.4	2.7	5.6	2.3
9	4.6	4.7	5.9	13.3	10.7	10.3	11.9	4.8	5.5	2.6	5.7	1.9
10	4.9	4.7	5.9	13.2	10.3	10.3	11.1	4.8	5.5	2.5	5.8	1.9
11	5.0	4.8	6.0	13.0	9.8	10.4	9.9	4.5	5.0	2.5	6.0	2.2
12	5.1	5.0	6.6	12.8	9.4	10.9	9.0	4.2	4.5	2.5	6.1	2.8
13	5.4	5.4	9.8	12.5	9.2	11.1	8.3	4.0	4.4	2.5	5.9	3.1
14	5.1	6.6	11.8	12.7	9.2	12.3	7.8	3.8	4.1	2.4	5.6	3.4
15	4.9	7.1	12.8	13.3	9.5	12.4	7.3	4.6	4.0	2.4	5.4	3.9
16	4.7	7.3	12.8	13.7	10.8	12.6	6.9	5.3	4.0	2.4	5.2	4.4
17	4.6	7.5	12.5	13.4	13.6	13.3	6.5	5.3	4.3	2.5	5.1	4.5
18	4.4	7.8	12.3	12.8	13.4	13.8	6.3	5.4	5.3	2.7	5.1	4.5
19	4.3	8.3	12.3	12.2	13.2	13.6	6.0	5.6	4.7	3.0	5.1	4.6
20	4.6	8.7	12.6	11.8	13.2	12.9	5.8	7.2	4.1	3.5	5.1	4.6
21	5.5	9.2	13.2	11.3	14.4	12.0	5.7	7.2	3.6	4.1	5.0	4.6
22	5.7	8.7	14.9	10.9	17.0	11.4	5.5	6.9	3.5	4.6	5.0	4.6
23	5.7	8.2	16.4	10.6	18.1	11.0	5.4	6.5	4.7	4.5	5.2	4.7
24	5.4	7.7	17.2	10.5	17.7	10.8	5.3	5.8	4.9	4.2	5.5	4.8
25	5.5	7.5	16.2	10.7	16.7	10.7	5.3	5.4	5.2	4.1	5.4	4.9
26	5.7	7.3	15.2	10.9	15.5	11.0	5.5	5.1	5.2	4.4	5.2	4.9
27	5.9	7.2	13.8	10.8	14.4	11.3	5.5	4.9	5.2	4.4	4.8	4.8
28	5.6	7.0	14.4	10.5	13.2	11.9	5.5	4.8	5.0	4.7	4.5	4.7
29	5.1	-----	15.6	10.2	12.6	12.3	5.5	4.6	4.7	5.7	4.5	4.5
30	4.8	-----	16.3	10.0	12.6	12.5	6.1	4.4	4.4	5.9	4.4	4.4
31	4.3	-----	16.1	-----	11.8	-----	5.8	4.2	-----	5.7	-----	4.3

1899.

1	4.0	1.7	9.4	9.5	15.7	15.5	14.1	6.2	3.2	4.1	3.6	4.8
2	3.3	2.9	8.3	9.2	15.2	15.6	14.2	6.1	3.2	3.9	3.8	4.7
3	2.9	4.0	8.0	8.9	14.8	16.0	14.3	6.0	3.3	3.8	4.0	4.6
4	3.3	4.7	8.1	8.6	14.2	16.3	14.4	5.9	3.3	3.7	4.3	4.5
5	3.9	5.0	8.2	8.3	13.7	16.3	14.6	5.7	3.4	3.6	4.6	4.4
6	4.2	5.1	8.5	8.3	13.4	16.2	14.6	5.6	3.4	3.6	4.9	4.3
7	4.0	5.2	8.7	8.4	13.2	15.9	14.5	5.5	3.5	3.5	5.2	4.2
8	3.9	5.1	8.4	8.6	13.3	15.5	14.4	5.4	3.6	3.4	5.4	4.2
9	3.8	5.0	8.1	8.9	13.4	15.3	14.1	6.9	3.8	3.3	5.6	4.2
10	3.8	4.8	8.2	9.3	13.5	15.2	13.8	9.1	4.0	3.3	5.8	4.2
11	3.8	4.6	8.5	9.4	13.8	15.0	13.5	9.9	4.2	3.2	6.0	4.2
12	3.7	4.4	8.8	9.2	13.7	14.7	13.2	9.4	4.3	3.1	6.1	4.3
13	3.6	4.3	9.3	9.2	13.3	14.5	12.9	8.6	4.4	3.1	6.2	4.4
14	3.7	4.2	9.9	9.2	12.9	14.3	12.4	8.0	4.5	3.0	6.3	4.5
15	3.9	4.0	10.3	9.5	12.3	13.9	11.8	7.2	4.5	3.0	6.4	4.1
16	4.3	3.9	10.9	10.0	12.0	13.3	10.8	6.3	4.4	2.9	6.5	4.0
17	4.2	3.8	11.4	10.7	12.1	13.0	10.2	5.7	4.4	2.9	6.4	3.9
18	4.0	3.8	11.8	11.1	12.2	13.0	9.9	5.3	4.6	3.0	6.3	3.9
19	3.8	3.8	12.9	11.3	12.3	12.8	9.7	5.0	4.7	3.1	6.2	4.0
20	3.6	3.7	14.0	11.5	12.5	12.4	9.5	4.7	4.8	3.2	6.1	4.1
21	3.6	3.6	14.5	11.8	14.3	12.3	9.3	4.4	4.7	3.1	6.0	4.0
22	3.7	3.7	14.5	12.0	16.0	12.3	9.0	4.3	4.6	3.0	6.0	3.8
23	3.8	3.8	14.1	12.4	17.3	12.3	8.7	4.2	4.5	2.9	6.0	3.6
24	3.9	4.0	13.6	13.3	17.8	12.4	8.3	4.0	4.4	2.8	5.9	3.3
25	4.1	4.2	13.1	14.1	18.3	12.6	8.0	3.8	4.4	2.7	5.7	3.0
26	4.1	5.8	12.6	14.4	18.2	12.9	7.5	3.7	4.3	2.7	5.5	2.5
27	3.9	8.6	11.8	14.5	17.7	13.3	7.3	3.6	4.3	2.7	5.3	2.0
28	3.7	10.2	11.1	14.6	16.9	13.5	7.1	3.5	4.3	3.1	5.1	1.7
29	3.4	-----	10.5	14.5	17.3	13.9	6.8	3.4	4.2	3.6	5.0	1.4
30	2.4	-----	10.0	15.0	16.4	14.1	6.5	3.4	4.2	3.6	4.8	1.1
31	1.2	-----	9.8	-----	16.2	-----	6.3	3.3	-----	3.5	-----	0.8

DAILY RIVER STAGES.

*Mississippi River system—Mississippi River, St. Louis, Mo.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.4	4.6	8.6	8.0	13.6	24.3	17.5	14.7	8.9	7.6	4.4	5.5
2	14.2	5.1	9.2	7.5	13.9	23.9	18.0	14.9	8.5	7.2	4.5	5.5
3	13.1	6.3	9.1	7.0	14.0	24.3	18.0	15.1	8.1	6.8	5.0	5.7
4	11.8	6.9	8.5	6.7	14.0	24.5	18.2	15.5	7.7	6.6	6.2	6.1
5	10.3	7.1	8.5	6.4	14.1	24.7	18.7	15.7	7.4	6.4	7.1	5.9
6	8.9	7.1	8.3	6.1	14.0	25.0	18.6	15.8	7.0	6.4	8.4	5.4
7	8.5	7.4	8.0	5.9	14.0	24.8	18.0	15.7	6.7	6.2	9.3	4.8
8	7.8	7.6	7.6	5.8	14.2	24.3	17.8	15.7	6.4	6.1	9.1	4.5
9	7.2	7.4	7.3	5.9	14.4	24.2	18.1	15.3	6.2	6.0	8.5	4.2
10	6.5	7.1	7.1	6.2	14.6	24.1	18.0	14.6	5.9	5.9	7.9	4.0
11	6.0	6.8	6.9	10.0	15.0	23.6	17.2	13.9	5.7	5.8	7.5	3.8
12	5.6	6.4	6.7	12.6	15.1	23.1	16.2	13.3	5.6	5.9	7.3	3.9
13	5.4	6.9	6.4	13.2	14.8	22.0	15.7	13.2	5.5	6.0	7.0	4.2
14	5.1	9.0	6.2	13.0	14.6	-----	15.2	12.7	5.5	6.0	6.8	4.5
15	5.2	10.6	6.0	12.6	14.1	18.8	14.5	12.0	5.9	6.2	6.6	5.0
16	5.2	10.2	5.8	12.3	14.0	17.7	13.8	11.6	6.2	6.5	6.6	5.4
17	5.1	9.5	5.6	12.0	14.0	17.5	13.6	11.1	6.2	6.4	6.6	6.0
18	5.1	9.3	5.2	11.6	14.0	18.7	13.8	10.7	6.2	6.1	6.7	6.7
19	5.1	8.9	5.0	11.0	16.2	19.2	13.7	10.5	6.7	5.8	6.8	7.4
20	5.0	8.1	4.9	10.4	20.5	19.2	14.1	11.1	7.6	5.6	6.8	7.7
21	4.8	7.3	4.7	10.2	23.8	19.1	16.4	12.1	8.6	5.5	6.8	7.8
22	4.7	6.2	4.8	9.9	24.9	18.7	20.7	12.8	9.7	5.3	6.6	7.7
23	4.7	5.7	4.9	9.7	25.6	18.0	21.8	13.4	10.5	5.2	6.5	7.5
24	4.9	5.3	5.1	9.5	26.5	17.5	21.5	13.2	10.5	5.1	6.4	7.4
25	5.3	5.2	5.4	9.4	27.2	17.4	20.4	12.6	9.9	4.9	6.2	7.4
26	5.2	5.6	6.2	9.6	27.7	17.0	19.0	12.2	9.5	4.8	6.1	7.3
27	4.8	6.2	7.1	10.1	27.2	17.1	18.1	12.0	9.2	4.7	6.1	6.9
28	4.6	7.4	7.1	10.9	27.6	17.5	17.1	11.2	8.9	4.6	6.0	6.6
29	4.5	8.1	7.5	11.6	27.0	17.9	16.3	10.5	8.9	4.5	5.8	6.5
30	4.4	-----	8.1	12.6	28.3	17.4	15.7	10.0	8.0	4.5	5.6	6.4
31	4.4	-----	8.4	-----	25.3	-----	15.2	9.5	-----	4.4	-----	6.4

1897.

1	6.4	5.0	12.7	24.0	30.6	15.0	21.8	13.8	6.8	3.9	3.1	3.5
2	6.4	4.8	12.2	27.0	31.0	14.5	21.4	13.5	6.5	3.9	3.2	3.2
3	6.8	5.0	12.5	28.0	30.8	14.6	22.0	13.1	6.2	3.8	3.2	2.8
4	20.0	5.8	12.9	27.9	30.6	15.2	22.7	12.7	5.9	3.8	3.1	2.7
5	24.0	6.1	14.9	27.8	30.0	16.3	22.4	12.4	5.8	3.8	3.1	2.8
6	24.4	7.0	20.5	27.8	29.1	16.7	21.3	12.1	5.6	3.7	3.2	2.0
7	24.8	7.3	21.9	27.6	28.0	17.1	20.9	11.9	5.5	3.6	3.4	1.0
8	24.0	7.9	21.7	27.3	27.0	17.2	20.5	11.6	5.5	3.6	3.6	0.2
9	21.2	8.4	21.0	27.8	25.9	17.1	20.8	11.9	5.5	3.4	3.9	-0.1
10	17.6	9.7	20.4	28.6	25.1	16.8	20.4	11.8	5.5	3.4	4.0	0.0
11	-----	10.3	19.3	28.9	24.3	16.5	19.1	11.6	5.4	3.3	4.0	0.1
12	13.1	11.2	18.8	28.8	23.4	16.2	18.2	11.2	5.2	3.3	4.1	0.4
13	11.9	11.0	18.2	28.5	22.5	15.6	17.4	11.0	5.0	3.4	4.0	0.4
14	10.7	12.3	18.1	27.8	21.6	15.2	-----	10.8	4.8	3.2	4.0	0.8
15	10.4	12.3	17.4	27.2	20.9	-----	-----	10.8	4.6	3.1	4.0	1.3
16	10.0	13.1	16.9	26.6	20.2	14.6	14.9	10.7	4.5	3.1	4.1	1.5
17	10.0	13.2	16.7	26.4	19.5	14.7	14.4	10.6	4.3	3.0	4.0	1.7
18	10.2	12.9	16.9	26.6	18.8	14.9	14.5	10.4	4.1	3.0	3.8	1.7
19	12.2	12.6	16.9	26.7	18.2	15.0	14.6	10.2	4.1	3.0	3.7	1.0
20	13.7	12.3	17.2	26.7	17.5	14.8	14.4	10.0	4.0	3.0	3.6	0.4
21	14.4	12.2	18.0	26.9	16.9	14.5	13.9	9.8	4.0	2.9	3.5	0.2
22	14.5	13.2	18.7	27.2	16.2	14.4	-----	9.7	3.9	2.8	3.5	0.0
23	14.6	14.8	19.3	27.4	16.0	15.3	12.8	9.5	3.9	2.8	3.6	-0.2
24	14.0	15.3	20.2	27.6	15.6	15.8	13.0	9.3	4.0	2.8	3.6	-0.4
25	13.6	15.4	20.2	27.4	15.2	15.9	13.5	9.0	4.2	2.8	3.6	-0.2
26	12.0	15.1	21.3	27.0	15.9	17.4	15.7	8.7	4.3	2.8	3.6	-0.1
27	10.9	14.6	22.8	27.1	16.2	18.2	17.9	8.4	4.3	2.9	3.6	0.0
28	9.5	13.6	23.2	27.7	16.2	18.3	18.0	8.0	4.2	3.0	3.6	0.6
29	8.3	-----	23.2	28.7	16.1	20.1	16.8	7.7	4.1	3.0	3.6	1.1
30	6.6	-----	23.0	29.9	16.5	21.8	15.0	7.5	4.0	3.0	3.6	1.5
31	5.6	-----	23.0	-----	16.0	-----	14.1	7.1	-----	3.0	-----	1.9

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, St. Louis, Mo.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.4	6.0	8.4	22.8	15.0	19.4	23.2	10.6	6.0	5.9	9.0	5.5
2	2.4	5.3	8.2	22.4	14.8	19.0	23.2	10.5	5.6	5.7	8.0	4.7
3	2.0	4.5	8.1	20.4	16.7	19.6	22.4	11.8	5.2	5.2	7.3	4.3
4	1.6	3.9	7.9	19.0	19.0	20.3	21.3	12.3	5.0	5.0	6.7	3.8
5	1.7	3.8	7.7	18.2	20.8	20.8	20.3	11.8	4.7	4.7	6.3	3.4
6	2.0	3.2	7.6	18.1	21.2	21.0	20.0	11.0	4.6	4.2	6.2	3.2
7	2.5	3.5	7.4	18.5	21.2	20.7	20.0	10.4	4.6	3.9	6.3	2.9
8	2.7	4.0	7.4	18.3	20.7	19.8	21.8	-----	4.9	3.7	6.7	2.4
9	2.9	4.8	7.2	18.4	20.2	19.2	22.2	9.6	5.9	3.6	6.8	1.9
10	3.1	4.9	7.2	18.6	19.6	19.2	21.8	9.5	6.8	3.4	7.0	1.1
11	4.7	4.9	7.2	18.2	18.9	20.0	21.0	8.8	8.2	3.5	7.4	0.3
12	5.4	5.6	7.6	17.6	17.9	21.0	20.4	8.4	8.6	3.7	7.6	0.4
13	6.2	7.0	10.0	17.0	16.8	22.2	19.2	8.5	8.5	4.7	7.3	0.7
14	6.7	8.6	15.3	16.9	16.4	22.8	18.1	9.0	7.9	4.2	6.9	0.4
15	6.4	9.0	17.2	17.3	16.0	23.0	17.1	8.9	7.4	3.7	6.5	0.5
16	6.2	9.0	17.6	17.6	16.4	23.4	16.0	9.2	7.0	3.3	6.1	1.0
17	5.8	9.0	18.1	16.9	20.0	24.8	15.0	8.9	8.8	3.0	5.8	1.2
18	5.6	9.3	18.0	16.6	22.6	25.4	14.0	8.9	10.1	3.2	5.7	1.5
19	5.3	9.8	17.6	15.6	23.2	25.0	13.5	8.5	11.0	3.6	5.6	1.8
20	5.3	10.7	17.3	15.3	22.9	24.1	12.9	9.3	10.1	4.8	5.5	2.2
21	5.9	11.2	17.9	14.5	22.6	22.8	12.7	10.6	9.2	7.0	5.5	2.6
22	6.6	12.3	19.7	13.8	26.0	21.5	12.5	10.9	8.3	9.0	5.7	3.9
23	7.0	11.4	24.6	13.6	27.2	20.6	11.8	10.0	7.8	9.9	5.6	6.3
24	6.9	10.3	25.2	13.5	27.0	20.0	11.2	9.0	8.3	9.8	6.5	8.0
25	6.7	9.7	24.6	13.6	26.0	19.3	11.1	8.3	8.8	9.2	7.3	9.0
26	6.8	9.2	23.7	14.2	25.0	18.7	11.3	7.9	8.5	8.5	8.6	9.8
27	7.5	8.8	22.7	17.4	23.9	19.3	11.6	7.5	8.4	7.8	8.9	9.7
28	7.7	8.5	22.8	17.7	22.8	21.3	11.4	7.0	8.0	7.8	8.1	9.3
29	7.3	-----	22.3	16.7	22.2	21.6	10.7	6.8	7.3	9.1	7.0	8.9
30	6.6	-----	22.4	15.6	21.4	22.6	10.7	6.7	6.5	10.1	6.1	8.6
31	6.2	-----	22.8	-----	20.4	-----	11.2	6.4	-----	9.9	-----	8.1

1899.

1	6.7	-0.7	14.6	12.9	25.1	22.6	20.9	18.9	7.5	4.8	3.9	5.4
2	5.7	-0.1	14.1	12.8	25.0	23.1	21.0	14.2	7.5	4.6	3.9	5.2
3	4.8	0.7	13.4	12.2	24.5	23.9	21.4	14.1	7.3	4.6	4.3	5.1
4	4.3	1.4	12.9	12.0	23.0	24.0	22.1	13.6	7.0	4.5	4.6	5.1
5	4.6	2.2	12.2	12.2	21.3	24.1	22.6	13.3	6.8	4.3	4.8	5.0
6	4.0	2.8	12.3	12.8	20.2	24.2	22.9	13.3	6.6	4.2	5.0	4.9
7	4.3	3.4	12.3	13.2	19.6	23.8	23.2	13.2	6.4	4.0	5.3	4.8
8	4.9	4.4	11.4	13.3	19.3	22.9	23.4	12.6	6.3	3.9	5.5	4.8
9	4.3	7.4	10.7	13.4	19.2	22.6	23.3	12.9	6.2	3.7	5.8	4.6
10	3.9	7.2	10.7	13.8	19.2	22.8	23.3	14.6	6.3	3.6	6.0	4.6
11	4.1	7.0	11.2	13.9	19.7	22.8	23.8	16.2	6.6	3.6	6.2	4.6
12	4.1	6.4	11.5	15.1	20.6	23.2	23.9	16.1	6.6	3.6	6.3	4.8
13	4.4	6.5	11.4	16.8	21.0	24.4	23.6	15.5	6.6	3.5	6.4	4.6
14	5.0	6.7	12.0	16.6	21.2	24.8	22.9	15.2	6.5	3.4	6.5	4.7
15	4.4	6.9	13.1	15.7	20.8	24.2	22.2	14.9	6.4	3.3	6.6	4.8
16	4.7	6.9	15.5	15.4	20.4	22.9	21.5	13.9	6.3	3.2	6.5	4.6
17	4.9	7.0	16.4	15.3	19.6	22.5	21.0	13.0	6.2	3.4	6.4	4.1
18	4.9	6.9	16.8	15.3	19.0	22.5	20.8	12.4	6.3	3.4	6.4	3.8
19	4.7	8.3	17.4	15.4	18.3	22.5	20.6	11.8	6.6	3.3	6.4	3.9
20	4.6	7.6	18.9	15.9	17.9	22.4	20.0	11.3	6.6	3.3	6.3	5.0
21	4.7	4.3	19.6	17.1	18.7	22.2	19.9	10.9	6.4	3.3	6.2	4.8
22	4.6	2.7	19.8	17.6	19.7	21.8	19.2	10.4	6.1	3.2	6.2	4.2
23	4.5	2.3	19.4	20.7	21.8	21.2	18.4	9.8	5.9	3.1	6.5	3.7
24	4.5	2.0	18.6	23.6	23.0	20.5	17.8	9.1	5.8	3.0	6.6	3.3
25	4.7	2.4	17.8	24.8	24.1	19.9	17.3	8.6	5.5	3.0	6.4	2.8
26	4.6	4.0	16.8	25.5	24.7	19.8	16.8	8.3	5.4	2.9	6.2	2.3
27	4.6	9.0	15.8	25.6	24.5	19.9	16.0	8.1	5.3	3.0	5.9	1.6
28	4.3	13.6	14.8	25.3	24.0	20.4	15.0	7.9	5.2	3.5	5.6	1.0
29	3.6	-----	13.9	24.8	23.2	20.7	15.0	7.7	5.0	4.0	5.6	0.5
30	2.9	-----	13.0	25.0	22.8	20.9	14.5	7.4	5.0	4.5	5.4	-0.1
31	1.1	-----	12.7	-----	22.7	-----	14.1	7.3	-----	4.2	-----	-0.6

¹ Readings not reliable owing to ice gorges. Ice broken to obtain readings.

Mississippi River system—Mississippi River, Chester, Ill.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.1	2.1	4.7	5.1	8.9	22.7	13.5	11.0	6.2	5.0	2.0	3.6
2	11.1	2.3	5.0	4.8	9.5	22.0	13.6	10.8	5.8	4.6	2.1	3.5
3	10.0	2.9	5.5	4.4	9.8	21.6	13.8	10.8	5.4	4.3	2.2	3.3
4	8.9	3.7	5.6	4.0	9.9	21.8	13.8	10.9	5.1	4.0	2.6	3.3
5	Ice.	4.1	5.3	3.8	9.9	21.7	14.0	11.2	4.8	3.7	3.5	3.5
6		4.4	5.0	3.5	9.9	21.7	14.2	11.3	4.6	3.7	4.2	3.3
7	6.0	4.6	4.8	3.3	9.9	21.7	14.0	11.3	4.3	3.7	5.2	2.9
8	5.5	4.7	4.6	3.1	9.9	21.3	13.5	11.2	4.0	3.6	5.8	2.5
9	4.8	4.7	4.3	2.9	10.0	20.7	13.5	11.1	3.9	3.5	5.7	2.2
10	4.2	4.5	4.0	3.0	10.2	20.6	13.7	10.7	3.8	3.3	5.3	2.0
11	3.7	4.1	3.9	3.3	10.4	20.3	13.5	10.2	3.5	3.3	4.9	1.9
12	3.2	3.9	3.7	6.6	10.7	19.8	12.7	9.7	3.4	3.3	4.6	1.8
13	3.0	3.9	3.6	8.4	10.8	19.1	12.0	9.2	3.3	3.3	4.5	1.9
14	2.8	5.2	3.4	8.9	10.5	18.0	11.6	9.1	3.2	3.4	4.3	2.1
15	2.7	6.7	3.2	8.8	10.2	16.4	11.0	8.7	3.2	3.4	4.1	2.3
16	2.6	7.6	3.1	8.4	10.0	15.0	10.4	8.2	3.4	3.5	4.0	2.6
17	2.6	7.2	2.9	8.2	10.0	13.8	10.0	8.1	3.6	3.7	3.9	2.9
18	2.5	6.6	2.7	7.9	9.9	13.8	9.8	7.5	3.6	3.7	3.9	3.2
19	2.5	6.3	2.6	7.5	10.3	14.6	9.8	7.3	3.8	3.4	3.9	3.9
20	2.5	5.9	2.5	7.1	13.8	14.9	10.7	7.2	4.4	3.2	4.0	4.4
21	2.4	5.2	2.4	6.6	17.5	15.0	11.8	7.7	5.1	3.1	4.0	4.6
22	2.4	4.2	2.4	6.5	19.7	14.8	14.3	8.3	5.7	3.0	4.0	4.7
23	2.4	3.5	3.0	6.2	21.1	14.6	17.1	8.8	6.5	2.9	3.9	4.6
24	2.8	3.1	3.7	6.0	22.2	14.0	17.8	9.2	7.0	2.7	3.8	4.5
25	2.9	2.7	3.7	5.9	23.1	13.5	17.3	9.0	6.8	2.6	3.7	4.4
26	3.0	2.7	4.2	5.8	23.4	13.2	16.0	8.6	6.4	2.5	3.6	4.3
27	2.9	2.9	4.8	6.0	23.8	13.0	14.9	8.3	6.1	2.4	3.7	4.2
28	2.6	3.4	5.0	6.5	24.2	13.3	13.9	8.0	5.9	2.3	3.8	4.0
29	2.4	4.2	4.5	7.2	24.8	13.6	13.0	7.5	5.6	2.1	3.8	3.8
30	2.2		4.7	7.9	24.2	13.9	12.2	6.9	5.3	2.1	3.7	3.7
31	2.1		5.0		23.5		11.6	6.6		2.1		3.6

1897.

1	3.6	3.8	9.9	20.5	25.1	11.7	16.4	10.2	5.0	2.5	1.7	1.8
2	3.7	3.1	9.2	22.8	25.7	11.0	16.0	10.0	4.8	2.5	1.7	1.7
3	3.9	2.9	9.3	24.3	26.1	10.9	15.9	9.8	4.6	2.4	1.7	1.5
4	7.9	3.1	9.4	25.1	25.8	11.1	16.4	9.5	4.4	2.4	1.7	1.2
5	17.5	3.6	11.3	25.3	25.6	11.5	16.8	9.2	4.2	2.3	1.7	0.9
6	20.0	4.4	15.3	25.0	24.7	12.0	16.3	9.0	4.1	2.3	1.7	0.5
7	21.3	5.0	18.5	24.8	23.8	12.3	15.5	8.9	3.9	2.2	1.7	0.2
8	21.6	5.1	19.7	24.8	22.9	12.6	15.1	8.7	3.8	2.2	1.8	-0.5
9	19.6	5.5	19.8	25.7	21.8	12.6	14.9	8.5	3.8	2.1	2.1	-1.1
10	16.8	6.1	19.8	26.1		12.4	15.1	8.7	3.9	2.1	2.2	-1.4
11	13.9	7.0	18.8	26.6	19.8	12.2	14.5	8.8	3.8	2.0	2.2	-1.2
12	11.6	7.9	18.2	26.8	19.2	11.9	13.6	8.4	3.7	2.0	2.3	-1.0
13	9.8	7.9	17.8	26.4	18.3	11.6	13.0	8.2	3.5	1.9	2.3	-0.9
14	8.6	7.9	17.2	26.0	17.5	11.3	12.3	8.0	3.4	1.9	2.3	-0.5
15	7.8	8.7	16.6	25.2	16.8	11.0	11.6	7.9	3.2	1.8	2.2	-0.3
16	7.4	8.8	15.7	24.3	16.1	10.8	11.1	7.8	3.1	1.8	2.3	0.0
17	7.1	9.3	15.1	23.7	15.4	10.7	10.7	7.7	3.0	1.7	2.4	0.3
18	7.0	9.3	15.5	23.4	14.7	10.7	10.5	7.6	2.9	1.6	2.3	0.3
19	7.5	9.0	16.5	23.2	14.2	10.9	10.5	7.5	2.8	1.6	2.1	0.0
20	8.9	8.8	15.8	23.1	13.7	10.9	10.6	7.4	2.7	1.6	2.0	-0.7
21	10.0	8.5	15.8	23.1	13.2	10.7	10.6	7.2	2.7	1.6	1.9	-1.2
22	10.4	9.1	16.6	23.2	12.6	11.4	10.1	7.1	2.6	1.6	1.9	-1.6
23	10.6	10.1	16.8	23.3	12.2	11.3	9.8	7.0	2.5	1.5	1.8	-1.8
24	10.7	11.2	17.0	23.5	11.9	11.8	9.5	6.9	2.5	1.5	1.8	-1.9
25	10.3	11.6	17.3	23.5	11.6	12.5	9.4	6.7	2.6	1.5	1.8	-1.9
26	Frozen.	11.5	17.5	23.2	11.6	12.4	10.2	6.4	2.7	1.5	1.9	-1.5
27	8.6	11.1	18.6	22.8	11.9	13.3	11.7	6.2	2.8	1.5	1.8	-1.0
28	7.6	10.6	19.7	22.8	12.1	13.3	12.8	5.9	2.8	1.5	1.9	-0.7
29	6.5		20.0	23.4	12.0	13.7	12.7	5.7	2.7	1.5	1.8	-0.4
30	6.4		19.8	24.1	12.0	15.3	11.7	5.5	2.6	1.5	1.8	-0.2
31	4.4		19.5		12.1		10.8	5.3		1.5		0.1

See gage description for corrections to be applied.

DAILY RIVER STAGES.

159

Mississippi River system—Mississippi River, Chester, Ill.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.4	4.5	5.7	20.4	11.7	15.9	18.0	8.9	3.9	4.2	6.3	3.5
2	0.7	4.0	5.5	19.5	11.4	15.3	18.2	8.4	3.6	3.9	5.7	2.8
3	0.6	3.6	5.3	18.4	11.6	15.1	18.0	8.9	3.2	3.5	4.9	2.4
4	0.3	2.6	5.2	17.2	13.1	15.6	17.3	9.5	3.1	3.1	4.4	1.8
5	0.1	2.5	5.0	16.5	15.5	16.2	16.1	9.6	2.9	3.0	3.9	1.4
6	0.3	2.3	5.0	15.6	16.8	16.7	15.5	8.9	2.7	2.8	3.6	1.3
7	0.7	2.1	4.8	15.4	17.1	16.8	15.1	8.3	2.6	2.6	3.6	1.1
8	1.2	2.1	4.7	15.2	16.9	16.0	16.4	7.9	2.6	2.3	3.6	1.0
9	1.5	2.3	4.6	14.9	16.5	15.3	18.0	7.9	2.9	1.9	4.0	0.7
10	2.1	2.9	4.6	14.7	15.7	14.7	17.8	7.6	3.6	1.5	4.1	0.3
11	2.4	3.1	4.5	14.5	15.2	14.7	17.6	7.4	4.3	1.6	4.3	-0.7
12	3.3	3.8	5.1	14.1	14.5	15.5	18.1	6.6	5.2	1.6	4.6	-1.0
13	4.3	3.9	7.5	13.5	13.7	16.8	16.1	6.1	5.5	1.8	4.8	Ice.
14	4.8	5.0	8.8	13.1	13.0	17.6	14.6	6.1	5.3	2.4	4.7	-0.5
15	5.3	5.9	12.0	13.2	12.9	18.2	13.6	6.3	4.9	2.3	4.4	0.6
16	5.0	6.3	13.0	13.4	12.5	18.4	12.7	6.2	4.5	1.8	4.1	2.0
17	4.7	6.5	13.3	13.3	13.0	19.0	12.0	6.2	4.5	1.6	3.9	3.2
18	4.4	6.4	13.5	12.8	16.0	20.0	11.0	6.1	5.7	1.3	3.7	3.3
19	4.1	6.5	13.5	12.4	17.6	20.0	10.4	5.9	6.8	1.3	3.4	2.8
20	4.5	7.0	13.3	11.8	18.1	19.7	9.8	5.7	7.1	1.7	3.3	0.8
21	4.7	7.5	13.8	11.3	18.1	19.0	9.2	6.5	6.6	3.0	3.1	0.8
22	4.9	8.4	15.1	10.9	19.4	17.9	9.1	7.2	6.0	4.5	3.0	1.1
23	5.6	8.5	18.1	10.5	21.2	16.8	9.0	7.3	5.3	5.9	3.0	2.1
24	5.8	7.8	20.8	10.3	22.2	15.7	8.5	6.6	4.9	6.6	3.2	3.9
25	5.6	7.2	21.6	10.2	21.9	15.0	8.1	5.8	5.2	6.6	3.9	5.2
26	5.4	6.7	21.2	10.3	20.8	14.7	8.0	5.4	5.6	6.1	4.5	6.0
27	5.4	6.3	21.4	11.5	20.0	15.2	8.1	5.1	5.5	5.5	5.5	6.4
28	5.7	5.9	21.6	13.1	19.0	15.7	8.2	4.8	5.3	4.9	5.6	6.4
29	5.7	.....	20.6	13.1	17.9	17.5	8.1	4.4	5.0	4.9	4.9	6.1
30	5.4	.....	20.3	12.4	17.6	18.0	7.8	4.2	4.5	5.0	4.1	5.7
31	4.9	.....	20.4	.....	17.0	.....	8.3	4.1	.....	6.5	.....	5.3

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.8	Frozen.	11.0	10.0	20.8	18.7	16.3	10.8	5.3	3.1	2.7	3.4
2	4.0	-1.3	11.6	10.0	20.9	18.7	16.3	10.7	5.3	3.0	2.5	3.4
3	2.9	-0.2	10.8	9.7	20.8	19.1	16.3	10.7	5.3	2.9	2.4	3.3
4	2.1	0.7	10.4	9.3	20.2	19.6	16.8	10.6	5.1	2.8	2.7	3.1
5	2.1	1.2	9.9	9.3	18.8	19.7	17.4	10.2	4.9	2.7	2.9	2.1
6	2.1	2.0	9.5	9.7	17.5	19.8	17.8	10.2	4.8	2.7	3.0	3.1
7	2.1	2.9	9.5	10.3	16.8	19.8	18.0	10.0	4.6	2.6	3.2	3.0
8	2.2	3.4	9.4	10.5	16.3	19.3	18.4	9.7	4.5	2.5	3.4	2.9
9	2.5	3.6	8.7	10.3	15.8	18.7	18.4	9.4	4.4	2.3	3.5	2.8
10	2.1	3.0	8.1	10.3	15.8	18.6	18.4	9.9	4.4	2.2	3.7	2.8
11	1.9	2.7	8.1	10.4	16.3	18.6	18.4	11.2	4.4	2.2	3.9	2.8
12	1.9	2.6	8.3	10.6	17.0	18.6	18.8	12.1	4.5	2.2	4.0	2.8
13	1.9	2.4	8.5	11.9	17.5	19.0	18.9	11.9	4.5	2.1	4.1	2.8
14	3.1	2.4	8.6	12.8	17.8	20.1	18.5	11.7	4.5	2.1	4.2	2.8
15	3.4	2.8	9.1	12.5	17.9	20.3	17.9	11.4	4.5	2.0	4.2	2.8
16	3.0	3.0	10.3	11.9	17.5	19.5	17.3	11.0	4.4	2.0	4.3	2.9
17	3.0	3.1	11.9	11.5	17.0	18.5	16.7	10.3	4.3	2.0	4.3	2.8
18	3.2	3.3	12.6	11.5	16.3	18.2	16.3	9.6	4.2	2.0	4.2	2.4
19	3.2	3.4	13.3	11.5	15.6	18.2	16.0	9.2	4.2	2.1	4.2	2.3
20	3.0	4.4	14.0	11.5	15.1	18.2	15.9	8.7	4.4	2.1	4.2	2.5
21	3.0	2.8	15.1	12.2	15.0	18.0	15.7	8.2	4.4	2.1	4.2	3.1
22	3.0	2.3	15.6	13.1	15.6	17.8	15.2	7.9	4.2	1.9	4.0	2.9
23	2.9	1.4	15.6	14.4	16.7	17.3	14.6	7.5	4.0	1.9	4.2	2.7
24	2.8	1.0	15.1	17.6	18.4	16.7	14.0	7.0	3.9	1.8	4.4	2.4
25	2.8	0.3	14.6	19.6	19.4	16.0	13.6	6.6	3.8	1.8	4.5	1.8
26	2.8	5.2	13.8	20.8	20.3	15.6	13.0	6.3	3.6	1.7	4.5	1.4
27	2.7	4.8	12.9	21.4	20.7	15.5	12.5	6.0	3.5	1.8	4.2	1.0
28	2.6	8.8	12.2	21.3	20.5	15.5	12.0	5.8	3.4	1.9	3.9	0.6
29	2.5	.....	11.4	20.9	19.9	15.8	11.6	5.7	3.3	2.2	3.7	0.2
30	2.0	.....	10.7	20.7	19.1	16.1	11.3	5.5	3.2	2.6	3.6	-0.1
31	0.9	.....	10.1	.....	18.8	.....	10.9	5.3	.....	2.8	.....	-0.5

See gage description for corrections to be applied.

DAILY RIVER STAGES.

Mississippi River system—Mississippi River, Memphis, Tenn.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.8	4.6	12.0	23.5	10.4	24.0	13.4	23.3	8.0	3.7	2.7	5.8
2	17.4	5.5	10.7	23.4	10.6	24.2	13.7	23.9	7.6	3.6	2.7	7.5
3	17.9	6.4	9.8	23.1	11.0	24.3	14.0	22.9	7.4	3.2	2.5	8.0
4	17.9	7.5	9.2	23.4	11.7	24.3	14.0	22.9	7.1	3.0	2.5	11.9
5	17.5	9.0	8.9	23.6	12.3	24.2	14.2	22.9	7.0	2.8	2.5	13.6
6	17.1	11.8	8.8	25.2	13.0	23.9	14.7	22.8	6.7	2.5	2.6	14.7
7	16.6	14.7	8.8	25.9	13.2	23.7	15.2	22.6	6.3	2.5	2.8	15.5
8	15.8	16.8	8.7	26.6	13.2	23.3	15.7	22.5	5.8	2.7	3.0	16.2
9	14.9	18.2	8.7	27.3	13.0	23.0	16.0	22.3	5.1	3.3	3.1	16.6
10	13.9	19.0	9.1	27.8	12.7	22.6	16.2	21.8	4.7	4.1	3.7	16.6
11	12.9	19.5	9.6	28.2	12.3	22.2	16.3	21.6	4.3	5.5	4.2	15.3
12	11.9	19.8	10.0	28.6	12.0	21.3	16.3	21.3	4.0	6.1	4.4	14.3
13	11.0	20.1	10.1	29.0	11.8	20.7	16.1	20.7	3.3	7.1	4.3	13.0
14	9.9	20.5	10.3	29.3	11.9	20.2	15.9	19.9	3.0	7.7	4.3	11.9
15	9.0	20.7	10.4	29.4	11.9	19.5	15.1	18.9	2.6	7.8	4.0	10.9
16	8.5	21.3	10.6	29.5	11.9	18.7	14.8	17.7	2.5	7.5	4.0	10.2
17	7.2	22.0	10.7	29.0	11.9	18.0	14.3	16.4	2.1	7.0	4.1	9.6
18	6.4	23.0	10.2	27.6	11.7	17.0	14.7	14.7	1.9	6.3	4.6	9.2
19	5.7	23.6	10.1	25.7	11.5	15.5	15.3	13.7	1.9	5.7	5.5	9.3
20	5.1	23.8	10.2	23.0	11.3	15.0	15.8	12.5	1.8	5.0	6.3	9.8
21	4.6	23.8	11.1	20.2	11.0	14.4	16.1	11.4	1.9	4.5	6.6	9.9
22	4.2	23.3	12.5	17.1	11.1	13.9	16.5	10.5	1.9	4.0	6.6	10.2
23	4.0	22.8	14.0	15.0	12.5	13.9	17.2	9.9	2.0	3.5	6.7	11.5
24	3.8	21.9	15.8	13.5	15.0	13.9	18.2	9.7	2.2	3.2	6.6	11.5
25	3.7	20.4	17.7	12.5	17.0	13.8	19.9	9.7	2.4	2.8	6.4	11.0
26	3.5	18.6	19.8	11.9	18.8	13.7	21.8	9.8	2.7	2.6	6.0	10.6
27	3.3	16.9	21.5	11.4	20.0	13.5	23.9	9.9	3.5	2.4	6.0	10.0
28	3.7	15.1	22.4	11.0	21.0	13.2	24.4	9.8	3.9	2.4	6.0	9.4
29	3.7	13.5	23.9	10.8	22.0	13.0	24.5	9.4	4.0	2.5	5.9	8.9
30	3.8	-----	23.8	10.5	23.0	13.0	24.2	9.0	4.1	2.6	5.9	8.0
31	3.9	-----	23.6	-----	23.6	-----	23.7	8.7	-----	2.7	-----	7.8

1897.

1	7.3	13.7	27.4	36.4	33.2	17.2	16.3	15.2	5.7	1.6	0.4	3.2
2	6.8	12.3	28.5	36.3	32.3	16.5	16.9	16.0	5.6	1.5	0.4	3.3
3	6.1	11.0	29.3	36.3	31.5	16.0	17.7	16.4	5.5	1.4	0.5	3.6
4	6.1	9.7	29.9	36.3	31.0	15.4	18.3	16.2	5.4	1.3	0.5	3.7
5	5.0	8.9	30.9	36.4	30.6	14.9	18.3	15.9	5.2	1.3	0.6	3.8
6	5.6	8.5	31.0	36.3	30.3	14.2	18.1	15.3	5.0	1.2	0.5	3.9
7	6.6	8.0	31.8	36.2	30.0	13.9	18.1	14.5	4.8	1.1	0.6	3.9
8	12.1	9.0	32.3	36.1	29.8	13.7	18.0	13.8	4.4	1.1	0.6	3.7
9	16.4	10.2	32.9	36.0	29.7	13.3	17.8	13.0	4.2	1.0	0.6	3.5
10	18.6	11.2	33.4	36.0	29.5	13.6	17.1	12.3	4.0	0.9	0.5	3.5
11	19.8	13.6	34.0	36.0	29.2	13.8	16.6	11.6	3.7	0.9	0.4	4.0
12	19.5	15.7	34.7	35.8	29.1	13.8	16.1	11.1	3.4	0.8	0.6	4.6
13	18.0	18.0	35.3	35.7	28.7	13.7	16.1	10.7	3.3	0.8	0.6	4.9
14	17.1	20.0	36.0	35.7	28.3	13.5	16.0	10.4	3.0	0.7	0.7	5.0
15	16.0	22.1	36.3	35.8	27.6	13.2	15.7	10.2	2.9	0.7	0.8	5.0
16	14.1	23.3	36.4	35.8	26.8	12.8	15.2	9.7	2.9	0.7	0.9	4.6
17	13.4	24.3	36.6	35.7	26.0	12.5	14.3	9.3	2.9	0.6	1.2	4.5
18	12.8	24.8	36.8	35.6	25.5	12.2	13.6	9.0	2.7	0.6	1.5	4.4
19	11.7	25.0	37.1	35.6	25.3	12.0	12.8	8.7	2.5	0.5	1.9	4.6
20	12.9	25.1	37.1	35.5	25.5	11.8	12.2	8.5	2.4	0.5	2.2	5.0
21	13.4	24.9	37.1	35.4	25.7	11.8	11.7	8.2	2.2	0.4	2.3	5.3
22	14.0	24.5	37.0	35.4	25.8	11.9	11.4	7.8	2.1	0.4	2.2	5.2
23	15.3	24.1	36.9	35.3	26.0	12.0	11.4	7.6	1.9	0.4	2.0	5.1
24	16.7	23.8	36.8	35.1	26.0	12.1	11.3	7.3	1.9	0.3	1.9	5.1
25	17.7	23.8	36.7	35.0	25.4	12.4	11.4	7.1	1.8	0.3	1.9	5.5
26	18.1	24.2	36.6	34.8	24.4	12.8	11.4	6.8	1.7	0.3	2.0	6.9
27	17.9	25.1	36.4	34.6	23.0	13.6	11.5	6.6	1.6	0.3	2.4	8.9
28	18.0	26.4	36.3	34.4	21.5	14.0	11.5	6.4	1.6	0.3	2.6	10.4
29	17.5	-----	36.2	34.1	20.1	14.7	11.8	6.3	1.6	0.3	2.8	11.5
30	16.7	-----	36.2	33.9	19.1	15.7	12.7	6.1	1.6	0.2	2.8	12.1
31	15.0	-----	36.3	-----	18.1	-----	14.0	6.0	-----	0.3	-----	12.2

DAILY RIVER STAGES.

161

Mississippi River system—Mississippi River, Memphis, Tenn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.8	33.3	17.7	33.3	21.0	24.9	16.3	8.7	9.1	6.3	9.0	10.5
2	11.8	33.5	17.7	33.8	21.3	24.2	17.1	9.0	9.0	6.5	9.4	10.5
3	10.5	33.6	17.6	34.2	21.3	23.5	17.9	9.4	8.8	6.9	10.8	10.2
4	9.7	33.6	17.4	34.8	20.7	23.0	18.2	9.7	8.6	7.3	11.6	9.9
5	8.7	33.6	17.1	35.5	20.3	22.2	18.2	9.9	8.1	7.3	11.7	9.2
6	8.1	33.6	16.6	36.1	20.3	21.6	17.9	10.2	7.7	6.8	11.4	8.3
7	7.3	33.5	16.0	36.5	20.9	20.9	17.3	10.7	7.1	6.3	10.7	7.7
8	6.9	33.1	15.1	36.8	21.9	20.4	16.3	11.2	6.5	5.8	9.9	7.2
9	6.0	32.3	14.2	37.1	22.9	19.8	15.8	11.5	6.0	5.4	9.1	6.8
10	5.5	31.1	13.2	37.2	23.5	19.1	15.0	11.9	5.8	5.1	8.5	6.6
11	5.3	29.1	12.2	37.3	23.7	18.3	15.0	11.7	6.2	4.9	7.9	6.5
12	5.8	26.4	11.3	37.3	23.5	17.3	15.8	11.5	7.3	4.6	7.5	6.5
13	6.3	23.4	10.8	37.1	23.5	16.5	16.2	11.7	7.3	4.9	7.2	6.7
14	6.9	20.3	10.4	36.9	23.3	15.9	16.2	12.7	9.0	5.8	7.4	6.9
15	9.5	17.0	10.3	36.8	22.8	15.6	15.9	15.0	9.3	6.6	8.0	7.0
16	13.7	14.7	12.3	36.5	22.2	15.9	15.2	15.7	9.2	6.9	8.5	6.9
17	17.8	13.0	14.0	36.0	21.5	16.5	14.2	16.2	8.9	6.9	9.2	6.6
18	20.8	12.2	17.0	35.5	20.8	17.1	13.5	16.3	8.4	6.7	10.0	6.5
19	22.7	11.9	20.0	35.0	20.1	17.6	12.7	17.6	7.8	6.4	11.0	6.1
20	24.9	12.0	22.0	33.9	19.9	18.2	11.9	17.8	7.3	6.1	11.9	5.9
21	26.4	12.3	23.5	32.4	20.3	18.8	11.2	19.1	7.1	5.7	12.1	5.8
22	27.8	12.8	24.8	30.4	21.3	19.2	10.4	19.0	7.3	5.3	12.4	5.8
23	29.2	13.7	26.0	28.2	21.9	19.1	9.5	18.3	7.5	5.1	12.5	5.9
24	30.0	15.0	27.0	26.6	22.4	18.7	8.3	17.3	7.5	5.1	12.3	6.3
25	31.0	16.1	28.1	25.7	23.3	17.9	7.9	16.1	7.2	5.4	11.9	6.5
26	31.2	17.0	29.2	23.6	24.7	17.0	8.5	14.9	6.7	6.0	11.7	7.0
27	32.0	17.7	30.0	22.4	25.7	16.0	8.3	13.5	6.1	6.9	11.0	8.2
28	32.4	17.9	31.0	21.5	26.3	15.8	7.8	12.1	5.8	7.9	10.5	10.0
29	32.7	.....	31.6	20.7	26.3	15.6	7.7	11.5	5.8	8.6	10.2	11.7
30	33.0	.....	32.2	20.8	26.2	15.8	7.9	10.0	5.9	8.9	10.3	13.4
31	33.2	.....	32.9	.....	25.7	.....	8.2	9.2	.....	8.9	.....	14.6

1899.

1	15.3	24.3	22.0	35.3	26.2	22.4	15.9	11.6	5.5	2.2	0.5	3.0
2	15.6	23.0	24.1	35.2	26.3	21.9	15.7	11.4	5.2	2.1	0.5	2.9
3	15.6	21.3	26.1	35.3	26.2	21.3	15.7	11.2	4.9	1.9	0.6	2.8
4	15.3	19.9	27.6	35.3	26.0	20.6	15.5	11.0	4.7	1.8	0.7	2.7
5	15.0	18.4	28.8	35.3	25.7	20.0	15.4	10.8	4.6	1.7	0.8	2.8
6	14.2	16.6	29.6	35.2	25.2	19.3	15.4	10.6	4.4	1.6	0.8	2.8
7	13.8	14.0	30.2	35.3	24.3	19.5	15.6	10.4	4.1	1.6	0.8	2.7
8	13.5	14.0	30.7	35.3	23.2	19.5	15.9	10.2	4.0	1.4	0.8	2.6
9	13.3	14.3	31.1	35.3	22.3	19.6	16.2	9.9	3.8	1.3	0.9	2.6
10	14.0	15.5	31.5	35.3	21.5	19.6	16.4	9.7	3.2	1.2	1.0	2.5
11	16.1	17.2	31.8	35.2	20.9	19.5	16.5	9.4	3.1	1.2	1.1	2.5
12	18.5	19.1	32.1	35.2	20.5	19.4	16.2	9.2	3.0	1.0	1.2	2.5
13	20.8	20.7	32.4	35.2	20.7	19.4	16.1	9.0	2.9	1.0	1.3	2.5
14	22.9	22.1	32.5	35.0	21.3	19.4	16.1	9.9	2.9	1.0	1.5	2.7
15	24.6	22.9	32.7	34.9	22.3	19.4	16.1	10.7	2.9	0.9	1.6	2.7
16	26.3	23.8	32.9	34.6	23.6	19.6	16.0	11.2	2.9	0.8	1.7	2.7
17	27.5	24.1	33.2	34.2	24.4	19.8	16.0	11.3	2.8	0.8	1.8	3.3
18	28.0	24.1	33.5	33.7	24.6	19.9	15.7	11.3	2.8	0.8	2.0	4.4
19	28.5	23.7	33.7	33.0	25.0	19.5	15.2	11.4	2.8	0.7	2.2	6.6
20	28.7	22.6	34.0	31.9	25.0	18.9	14.6	11.0	2.8	0.7	2.2	7.8
21	28.9	21.4	34.2	30.4	24.7	18.5	14.2	10.4	2.6	0.7	2.7	8.1
22	29.0	20.4	34.4	28.6	24.0	18.2	13.8	9.9	2.5	0.8	2.8	8.2
23	29.0	19.7	34.6	26.9	23.3	18.1	13.6	9.1	2.5	0.8	2.9	8.2
24	29.0	19.2	34.7	25.1	22.4	18.1	13.5	8.6	2.6	0.8	3.0	8.3
25	28.9	18.4	34.8	23.8	21.7	18.0	13.4	8.1	2.6	0.8	3.1	8.4
26	28.4	18.3	35.0	23.4	21.2	17.8	12.8	7.7	2.5	0.8	3.2	9.4
27	28.1	18.7	35.0	23.6	21.2	17.4	12.6	7.4	2.4	0.7	2.9	10.2
28	27.7	20.0	35.1	24.4	21.6	16.8	12.3	7.0	2.4	0.6	2.9	10.6
29	27.1	.....	35.2	25.3	22.0	16.4	12.2	6.5	2.3	0.7	3.0	10.9
30	26.5	.....	35.3	25.8	22.5	16.1	12.0	6.1	2.2	0.6	3.0	11.0
31	25.6	.....	35.3	.....	22.5	.....	11.8	5.7	.....	0.5	.....	10.7

DAILY RIVER STAGES.

Mississippi River system—Mississippi River—Helena, Ark.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.9	8.0	20.8	31.3	17.2	31.2	19.6	31.5	13.5	6.9	5.0	9.5
2	22.7	8.8	19.2	31.3	17.0	31.7	19.9	31.1	12.9	6.8	5.0	10.2
3	23.5	10.0	17.5	31.2	17.0	32.0	20.1	30.9	12.4	6.4	4.9	11.7
4	24.1	11.2	16.4	31.3	17.5	32.3	20.4	30.8	12.0	6.0	4.8	14.4
5	24.2	12.6	15.6	31.8	18.1	32.4	20.5	30.8	11.7	5.7	4.7	16.9
6	24.1	14.7	15.2	32.5	18.8	32.4	20.8	30.8	11.3	5.3	4.8	18.9
7	23.6	17.5	15.1	33.2	19.5	32.2	21.3	30.6	10.9	5.0	4.8	20.1
8	23.0	20.0	15.0	34.1	19.8	32.0	21.8	30.4	10.5	4.8	5.1	21.1
9	22.2	22.2	15.0	34.8	19.9	31.7	22.4	30.2	10.0	5.1	5.5	22.0
10	21.2	24.1	15.0	35.4	19.6	31.4	22.9	30.1	9.0	6.0	5.9	22.3
11	20.2	25.2	15.3	36.0	19.2	31.1	23.2	30.0	8.5	7.0	6.4	22.0
12	19.2	25.9	15.8	36.5	18.9	30.6	23.3	29.8	7.8	8.3	7.0	21.3
13	18.1	26.5	16.3	37.1	18.5	30.0	23.2	29.4	6.9	9.8	7.7	20.2
14	17.0	27.0	16.8	37.6	18.4	29.3	23.1	28.8	6.4	11.0	7.7	19.0
15	15.9	27.3	16.8	38.0	18.3	28.7	22.7	28.0	5.8	11.8	7.5	17.9
16	14.7	27.7	17.0	38.3	18.3	27.9	22.1	26.8	5.4	12.1	7.3	16.5
17	13.6	28.4	17.1	38.4	18.3	27.0	21.4	25.5	5.0	11.8	7.0	15.6
18	12.5	29.1	17.4	38.2	18.3	26.0	21.1	23.9	4.5	11.2	7.1	14.8
19	11.4	30.0	17.0	37.5	18.1	24.9	21.4	22.2	4.2	10.4	7.9	14.4
20	10.4	30.6	16.6	36.1	17.8	23.7	22.0	20.7	4.1	9.2	8.8	14.4
21	9.6	30.9	16.9	33.9	17.6	22.4	22.5	19.1	4.1	8.5	9.7	14.8
22	8.8	31.0	17.6	31.0	17.4	21.5	22.9	18.0	4.1	7.9	10.1	15.5
23	8.5	30.7	19.0	28.0	17.6	20.8	23.4	16.4	4.1	7.4	10.4	16.5
24	8.0	30.2	20.5	25.0	19.1	20.6	24.6	15.5	4.2	6.7	10.4	16.8
25	7.6	29.4	22.3	22.5	21.6	20.7	25.5	14.9	4.4	5.8	10.2	16.9
26	7.4	28.2	24.5	20.8	24.2	20.5	27.2	14.8	4.9	5.3	9.8	16.6
27	7.2	26.6	26.7	19.5	26.0	20.4	29.1	14.9	5.5	4.9	10.0	16.0
28	7.1	24.6	28.6	18.8	27.4	20.1	30.6	15.0	6.2	4.8	10.2	15.3
29	7.2	22.7	29.9	18.2	28.6	20.0	31.4	15.0	6.8	4.7	10.2	14.6
30	7.3	-----	30.7	17.5	29.6	19.7	31.8	14.5	6.9	4.8	9.6	14.0
31	7.5	-----	31.1	-----	30.6	-----	31.7	14.1	-----	4.9	-----	13.5

1897.

1	12.7	22.3	34.8	51.0	45.4	26.8	21.4	19.6	8.6	1.2	-0.6	3.3
2	12.2	20.7	35.8	51.2	45.0	25.4	22.2	21.0	8.3	1.2	-0.5	3.6
3	11.7	19.2	36.8	51.5	44.5	24.3	23.0	22.3	8.0	1.1	-0.5	4.0
4	11.1	17.6	37.6	51.8	44.1	23.3	23.9	22.6	7.7	1.0	-0.4	4.3
5	10.7	16.0	38.4	50.5	43.6	22.5	24.6	22.6	7.6	0.9	-0.2	4.5
6	10.2	15.2	39.1	49.5	43.3	21.5	24.8	22.3	7.4	0.8	-0.2	4.6
7	9.8	14.2	39.7	49.1	43.0	20.6	24.8	21.6	7.1	0.7	-0.2	4.7
8	11.8	14.5	40.3	48.9	42.7	20.0	24.8	20.8	6.6	0.5	-0.2	4.6
9	17.5	15.5	40.9	48.7	42.4	19.6	24.7	19.9	6.3	0.4	-0.2	4.3
10	22.0	16.8	41.6	48.6	42.1	19.5	24.3	18.9	5.8	0.3	-0.3	4.1
11	24.5	18.5	42.3	48.4	41.8	19.5	23.7	17.9	5.4	0.3	-0.4	4.3
12	25.8	20.4	43.0	48.2	41.6	19.6	23.0	17.0	5.1	0.2	-0.4	4.9
13	25.8	22.6	43.5	48.1	41.4	19.6	22.5	16.2	4.7	0.1	-0.4	5.7
14	25.0	25.1	44.2	48.1	41.0	19.4	22.4	15.7	4.5	0.0	-0.2	6.2
15	23.7	27.3	44.7	47.9	40.6	19.2	22.3	15.2	4.2	-0.1	-0.1	6.4
16	22.2	29.5	45.5	47.7	40.1	18.8	21.9	14.8	4.0	-0.2	0.1	6.3
17	21.1	31.0	45.9	47.6	39.5	18.3	21.3	14.4	3.7	-0.3	0.4	6.1
18	20.2	32.2	46.7	47.4	38.8	17.8	20.5	13.9	3.5	-0.3	0.6	5.7
19	19.6	32.7	47.7	47.3	38.2	17.4	19.6	13.1	3.2	-0.4	1.0	5.9
20	19.3	33.2	48.3	47.2	37.7	17.0	18.6	12.7	2.9	-0.5	1.5	6.1
21	19.5	33.4	48.8	47.1	37.4	16.8	17.8	12.4	2.7	-0.5	1.9	6.5
22	19.9	33.2	49.1	47.0	37.3	16.7	17.1	11.9	2.4	-0.6	2.1	7.0
23	20.6	33.2	49.4	46.9	37.2	16.9	16.6	11.5	2.1	-0.6	2.1	7.1
24	22.0	32.8	49.4	46.8	37.1	17.1	16.5	11.1	2.0	-0.6	1.9	6.9
25	23.3	32.6	49.5	46.6	36.8	17.3	16.5	10.7	1.8	-0.7	1.8	6.8
26	24.3	32.6	49.7	46.5	36.3	17.6	16.5	10.3	1.6	-0.8	1.9	7.4
27	25.0	32.9	50.0	46.3	35.3	18.2	16.5	10.0	1.5	-0.8	2.1	9.3
28	25.2	33.8	50.2	46.2	33.8	19.0	16.5	9.7	1.4	-0.8	2.4	11.7
29	25.0	-----	50.4	46.0	32.2	19.7	16.5	9.3	1.3	-0.8	2.7	13.9
30	24.5	-----	50.6	45.7	30.3	20.5	17.0	9.0	1.2	-0.7	2.9	15.5
31	23.4	-----	50.9	-----	28.5	-----	18.1	8.8	-----	-0.6	-----	16.4

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, Helena, Ark.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.5	42.1	25.1	41.6	34.3	36.0	23.3	13.4	14.7	9.4	13.7	15.9
2	16.3	42.5	25.2	42.2	33.9	35.5	24.0	14.0	14.0	10.1	13.9	16.0
3	15.6	42.6	25.1	42.7	33.5	34.8	24.9	14.4	13.8	10.7	14.8	16.1
4	14.8	42.8	24.8	43.2	33.0	34.0	25.6	14.6	13.6	11.4	16.2	15.8
5	13.8	42.9	24.6	43.7	32.1	33.3	26.1	15.0	13.2	12.0	17.0	15.4
6	12.8	43.0	24.3	44.1	31.5	32.4	26.2	15.2	12.5	12.1	17.3	14.6
7	11.6	43.1	23.8	44.6	31.0	31.5	25.8	15.7	11.8	11.5	16.9	13.6
8	10.6	43.1	23.0	45.1	31.4	30.7	25.2	16.3	11.0	10.7	16.3	12.7
9	9.6	43.0	22.1	45.6	32.2	29.9	24.4	17.0	10.1	9.9	15.2	11.8
10	8.6	42.7	21.0	46.3	33.0	29.3	23.3	17.6	9.3	9.3	14.3	11.2
11	8.0	41.9	19.8	46.9	33.5	28.3	22.5	17.8	9.0	8.7	13.4	10.9
12	8.0	40.5	18.6	47.5	33.7	27.3	22.5	17.7	9.7	8.2	12.5	10.7
13	8.6	38.5	17.5	48.1	33.7	26.2	22.9	17.5	11.0	7.7	12.0	10.8
14	9.3	35.6	16.7	48.5	33.6	25.1	23.3	18.0	12.4	8.1	11.7	10.7
15	10.8	32.0	16.5	48.8	33.5	24.1	23.3	19.1	13.4	9.2	11.9	11.1
16	14.4	28.5	17.4	49.0	33.0	23.8	23.0	20.5	13.8	10.3	12.4	11.2
17	19.3	24.6	18.8	49.1	32.6	23.9	22.3	21.4	13.9	10.9	13.1	11.2
18	24.0	22.0	21.1	49.0	32.0	24.5	21.4	22.3	13.4	11.0	14.0	10.8
19	27.5	20.0	24.5	48.9	31.1	25.1	20.4	23.5	12.8	10.4	15.0	10.7
20	30.7	19.0	27.6	48.5	30.7	25.7	19.3	24.9	12.1	10.4	16.3	10.4
21	32.9	18.8	30.0	47.9	30.3	26.4	18.2	26.1	11.4	9.9	17.5	9.9
22	34.6	18.8	31.9	47.0	30.6	27.2	17.2	26.8	11.1	9.3	18.3	9.9
23	36.5	19.4	33.4	45.8	31.3	27.5	16.2	26.6	11.2	8.7	18.7	9.7
24	37.5	20.4	34.7	44.1	31.7	27.5	15.2	26.0	11.5	8.5	18.8	9.9
25	38.4	21.6	35.8	42.5	32.4	27.1	14.4	25.0	11.4	8.4	18.6	10.2
26	39.3	23.0	36.8	40.9	33.5	26.2	14.0	24.0	11.1	8.8	18.2	10.3
27	39.9	24.1	37.9	39.2	34.6	25.2	13.6	22.5	10.5	9.6	17.5	11.0
28	40.4	24.8	38.9	37.7	35.5	24.2	13.3	20.7	9.9	10.7	16.8	12.6
29	40.9	-----	39.6	36.2	36.1	23.3	12.8	19.0	9.1	11.1	16.2	14.9
30	41.4	-----	40.3	35.0	36.4	23.2	12.5	17.2	9.0	13.1	15.8	17.3
31	41.8	-----	41.0	-----	36.3	-----	12.6	15.7	-----	13.5	-----	18.4

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.8	36.1	28.8	45.6	37.1	31.6	23.3	17.7	9.2	4.4	1.7	5.4
2	21.7	34.9	30.7	45.9	37.1	31.6	22.7	17.5	8.7	4.3	1.7	5.3
3	22.0	33.5	32.8	46.0	37.1	31.1	22.6	17.2	8.3	4.2	1.7	5.2
4	22.3	31.9	34.7	46.2	37.0	30.5	22.4	17.1	7.9	4.0	1.9	5.1
5	22.2	30.1	36.3	46.3	36.8	29.8	22.4	16.9	7.6	3.9	2.1	5.0
6	21.7	28.2	37.5	46.4	36.4	29.1	22.2	16.5	7.3	3.7	2.1	4.9
7	20.9	26.6	38.3	46.6	35.9	28.7	22.0	16.2	7.1	3.6	2.1	4.9
8	20.8	24.2	39.0	46.7	35.1	28.4	22.2	16.0	6.9	3.4	2.1	4.9
9	19.9	22.8	39.6	46.8	33.9	28.3	22.5	15.6	6.6	3.3	2.1	4.9
10	19.8	22.6	40.0	46.9	32.6	28.2	22.8	15.2	6.3	3.2	2.2	4.8
11	20.8	23.7	40.6	46.9	31.5	28.1	23.0	14.9	6.1	3.0	2.3	4.7
12	23.0	25.3	41.0	46.9	30.4	28.0	23.1	14.5	5.9	2.9	2.5	4.7
13	25.8	27.3	41.3	46.9	29.8	27.9	23.1	14.2	5.7	2.8	2.6	4.8
14	29.0	28.9	41.6	46.8	29.8	27.8	23.2	14.4	5.6	2.6	2.8	5.0
15	31.3	30.4	42.0	46.8	30.3	27.8	23.1	15.0	5.5	2.5	3.0	4.8
16	32.2	31.5	42.3	46.7	31.2	27.8	23.2	16.0	5.5	2.3	3.2	4.8
17	35.0	32.3	42.5	46.5	32.3	28.0	23.3	16.7	5.5	2.2	3.3	4.9
18	36.2	32.8	42.8	46.4	33.3	28.2	23.1	17.0	5.4	2.2	3.5	5.8
19	36.8	32.9	43.1	46.0	34.1	28.3	22.9	17.1	5.3	2.1	3.7	7.2
20	37.4	32.5	43.4	45.7	34.6	28.0	22.2	16.9	5.3	2.1	4.0	8.6
21	37.8	31.7	43.6	45.1	34.8	27.5	21.5	16.5	5.2	2.1	4.4	9.8
22	38.1	30.5	43.7	44.0	34.7	26.8	21.5	15.9	5.0	2.1	4.9	10.3
23	38.2	29.6	44.1	42.7	34.3	26.4	21.1	15.1	5.0	2.1	5.1	10.6
24	38.5	28.7	44.2	41.3	33.6	26.3	20.7	14.2	5.0	2.1	5.2	10.8
25	38.6	27.8	44.3	39.7	32.7	26.1	20.3	13.4	5.1	2.1	5.4	11.1
26	38.6	27.4	44.6	38.2	31.8	26.0	19.9	12.8	5.1	2.1	5.3	12.5
27	38.4	27.2	44.7	37.1	31.2	25.8	19.4	12.0	5.1	2.0	5.3	14.1
28	38.2	27.7	45.0	36.6	30.9	25.4	18.8	11.8	4.9	2.0	5.2	15.1
29	37.8	-----	45.1	36.7	31.0	24.5	18.5	11.0	4.8	1.9	5.2	15.7
30	37.5	-----	45.3	36.8	31.2	23.9	18.3	10.4	4.6	1.8	5.4	16.1
31	36.8	-----	45.5	-----	31.5	-----	18.0	9.8	-----	1.8	-----	16.1

Mississippi River system—Mississippi River, Arkansas City, Ark.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.7	11.3	27.8	33.3	23.1	33.7	20.5	32.9	13.7	6.0	4.2	10.2
2	29.3	12.0	26.2	33.6	22.0	34.0	20.4	32.9	13.2	6.1	4.5	10.0
3	30.1	12.8	24.4	33.8	21.5	34.5	20.5	32.8	12.7	6.0	4.6	10.3
4	30.6	13.9	23.2	34.2	21.3	34.9	20.8	32.6	12.3	5.7	4.7	11.5
5	30.7	15.0	21.2	34.5	21.3	35.2	21.3	32.3	11.9	5.5	4.8	13.6
6	30.8	16.3	20.1	34.9	21.7	35.4	21.9	32.1	11.5	5.3	4.6	16.4
7	30.6	18.1	19.4	35.5	22.3	35.7	22.3	31.9	11.0	4.9	4.4	18.2
8	29.6	19.6	19.0	36.0	22.5	35.8	22.8	31.7	10.5	4.6	4.4	19.7
9	28.6	23.3	18.7	36.4	22.8	35.8	23.2	31.5	10.2	4.4	4.4	20.8
10	27.6	25.1	18.4	36.8	23.0	35.5	23.5	31.3	9.4	4.4	5.3	21.6
11	27.4	26.6	18.1	37.3	22.7	35.1	23.9	31.1	8.4	5.0	5.8	22.0
12	26.8	27.7	18.5	38.2	22.4	34.6	24.1	30.9	7.3	5.6	6.0	22.0
13	25.8	28.6	18.7	38.4	21.8	34.0	24.3	30.7	6.5	6.8	6.6	21.5
14	24.6	29.1	19.0	38.6	21.4	33.4	24.2	30.4	5.8	8.0	7.6	20.4
15	23.5	29.7	19.3	39.0	21.1	32.8	24.1	29.8	5.2	9.4	7.8	19.6
16	22.5	30.2	19.5	39.2	20.8	32.0	23.7	29.1	4.7	10.6	7.8	18.6
17	20.9	30.9	19.7	39.8	20.7	31.1	23.2	28.1	4.5	11.0	7.3	17.5
18	19.7	31.4	19.9	40.0	20.6	30.5	22.4	27.0	4.3	11.0	7.1	16.5
19	18.4	32.1	20.1	40.1	20.4	29.6	22.2	25.5	4.0	10.7	6.9	15.5
20	17.4	32.7	20.3	40.0	20.2	28.6	22.0	23.8	3.7	10.0	7.3	15.0
21	16.3	33.3	20.4	39.6	19.9	27.3	22.3	22.0	3.4	9.3	8.2	14.5
22	15.3	33.7	20.6	38.7	19.6	26.0	22.7	20.2	3.1	8.7	9.0	14.7
23	14.4	33.8	21.2	37.1	19.3	24.5	23.2	18.5	3.1	7.7	9.8	15.1
24	13.6	33.8	22.2	35.2	20.2	23.5	23.6	17.5	3.3	7.2	10.1	15.8
25	12.7	33.4	23.7	32.8	22.0	22.6	24.2	16.3	3.3	6.4	10.3	16.2
26	11.6	32.8	25.2	30.7	24.2	22.3	25.4	15.3	3.5	5.5	10.4	16.5
27	11.7	31.7	27.0	28.6	26.7	22.0	26.8	14.5	3.9	5.0	10.4	16.4
28	11.5	30.8	28.8	27.0	28.9	21.6	27.6	14.5	4.1	4.8	10.3	16.1
29	11.4	29.5	30.0	25.3	30.5	21.2	30.0	14.5	5.1	4.4	10.4	15.5
30	11.2	-----	31.6	24.1	31.7	20.9	31.4	14.4	5.7	4.1	10.4	15.0
31	11.0	-----	32.5	-----	32.8	-----	32.4	14.2	-----	4.0	-----	14.4

1897.

1	13.8	27.8	35.0	50.6	48.2	34.0	20.4	17.6	8.9	-0.1	-2.3	1.5
2	13.2	26.8	36.0	50.4	48.1	32.2	21.2	18.9	8.5	-0.2	-2.2	2.0
3	12.2	25.6	36.8	50.2	48.0	30.6	22.0	20.2	8.1	-0.2	-2.2	2.5
4	12.0	24.3	37.5	50.2	47.8	29.0	22.7	21.2	7.7	-0.3	-2.2	2.8
5	11.8	22.9	38.0	50.2	47.7	27.7	23.5	21.9	7.4	-0.4	-2.1	3.1
6	11.8	21.5	38.6	50.0	47.5	26.2	24.2	22.2	7.1	-0.5	-2.1	3.3
7	13.7	20.5	39.1	49.9	47.3	24.9	24.6	22.0	6.8	-0.6	-2.0	3.5
8	15.7	19.5	39.5	49.8	47.1	23.7	24.7	21.6	6.5	-0.7	-2.0	3.6
9	18.1	19.1	40.0	49.9	46.8	22.5	24.8	21.1	6.2	-0.8	-2.0	3.6
10	21.6	19.3	40.5	49.9	46.6	22.0	24.8	20.2	5.7	-0.9	-2.1	3.6
11	24.6	20.1	41.0	49.9	46.3	21.7	24.6	19.4	5.3	-1.1	-2.1	3.5
12	26.7	21.1	41.8	49.9	46.1	21.4	24.2	18.4	4.8	-1.2	-2.1	3.4
13	27.9	22.9	42.6	49.8	45.8	21.1	23.5	17.4	4.4	-1.3	-2.2	3.5
14	28.2	25.1	43.3	49.8	45.4	20.8	23.0	16.6	3.8	-1.4	-2.2	3.9
15	27.9	27.2	44.0	49.8	45.1	20.5	23.5	16.2	3.5	-1.5	-2.1	4.6
16	26.9	29.2	44.8	49.8	44.7	20.3	22.3	16.1	3.2	-1.6	-1.9	5.4
17	25.9	31.0	45.4	49.7	44.5	19.9	22.0	15.8	3.0	-1.7	-1.7	5.8
18	24.8	32.4	46.0	49.6	44.2	19.4	21.4	15.2	2.8	-1.7	-1.4	6.1
19	24.1	33.4	46.7	49.4	43.9	18.8	20.9	14.6	2.6	-1.8	-1.1	6.0
20	23.4	34.1	47.4	49.3	43.5	18.4	20.4	13.9	2.4	-1.8	-0.7	5.6
21	23.2	34.6	48.1	49.3	43.0	17.9	19.4	13.2	2.0	-1.9	-0.4	5.6
22	23.4	34.9	48.8	49.2	42.6	17.8	18.6	13.8	1.6	-2.0	-0.2	6.0
23	23.9	35.1	49.4	49.1	42.0	18.1	17.7	12.5	1.3	-2.1	0.0	6.4
24	24.7	35.1	50.1	49.0	41.7	18.2	17.1	12.2	1.1	-2.2	0.2	6.9
25	25.7	34.9	50.7	48.9	41.3	18.2	16.8	11.6	0.9	-2.2	0.6	7.3
26	26.8	34.8	51.0	48.8	40.8	18.2	16.6	11.0	0.7	-2.2	0.6	7.5
27	27.8	34.8	51.4	48.7	40.4	18.3	16.5	10.3	0.5	-2.3	0.6	7.6
28	28.4	35.0	51.7	48.5	39.7	18.5	16.5	10.0	0.3	-2.3	0.7	8.8
29	28.7	-----	51.9	48.4	38.7	19.1	16.5	9.8	0.2	-2.3	0.8	10.7
30	28.7	-----	51.7	48.3	37.4	19.7	16.5	9.6	0.1	-2.3	0.9	12.0
31	28.4	-----	51.0	-----	35.8	-----	16.8	9.4	-----	-2.3	-----	14.6

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, Arkansas City, Ark.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		40.9	26.4	43.0	45.4	42.8	26.1	15.0	18.6	12.0	15.0	17.5
2		41.3	26.6	44.0	44.3	42.6	25.1	15.0	17.4	11.7	16.7	17.0
3		41.7	26.7	45.0	43.1	42.3	24.2	15.2	16.5	11.2	16.8	17.0
4		42.0	26.6	45.8	42.0	41.7	24.8	15.4	15.2	11.7	16.9	16.8
5		42.3	26.4	46.6	41.1	41.0	27.2	15.7	14.7	12.3	17.7	16.6
6		42.7	26.2	47.2	40.1	40.0	27.8	15.9	14.6	13.7	18.5	16.2
7		42.9	25.9	47.7	39.7	39.0	28.2	16.9	13.7	14.2	18.9	16.0
8		43.2	25.4	48.2	39.5	38.0	28.3	18.3	12.8	14.2	18.9	15.9
9		43.4	24.8	48.5	39.5	37.0	27.8	19.7	11.9	13.7	18.5	15.7
10		43.5	24.0	48.8	39.7	36.0	27.3	20.7	11.0	13.2	17.7	15.5
11		43.6	22.9	49.2	40.1	35.1	26.2	21.0	10.0	12.7	16.9	14.0
12		43.5	21.8	49.5	40.7	34.2	25.2	21.3	9.5	12.2	16.7	13.7
13		43.2	20.7	49.8	41.1	33.2	24.2	21.5	9.5	11.5	15.0	13.0
14		42.5	19.6	50.1	41.7	32.2	24.2	21.2	10.5	11.0	14.2	12.7
15		41.2	19.0	50.4	42.2	31.2	24.2	21.4	11.7	10.7	13.7	12.2
16		39.4	20.9	50.7	42.7	29.8	24.5	22.1	12.9	10.5	13.2	12.0
17		36.6	22.5	50.9	43.2	29.0	24.4	23.2	13.7	10.5	13.7	12.0
18		33.8	24.0	51.0	43.7	28.6	24.0	24.1	14.7	12.7	14.0	12.2
19		31.1	25.8	51.2	43.9	28.5	23.2	24.9	15.2	13.4	14.7	12.4
20		29.0	28.0	51.2	44.0	28.6	22.1	25.7	15.2	14.0	15.7	12.0
21		26.9	30.5	51.2	43.8	29.4	21.0	26.7	15.2	14.4	16.7	11.7
22		25.6	32.1	51.1	43.4	30.0	19.9	27.5	14.7	14.7	17.7	11.5
23		24.7	33.6	51.0	42.9	30.4	18.8	28.1	14.2	14.4	18.5	11.2
24		24.1	34.7	50.7	42.4	30.6	17.8	28.2	14.0	13.7	18.7	11.3
25		24.1	36.0	50.3	42.1	30.6	16.8	28.1	13.7	13.0	19.2	11.7
26		24.4	37.0	49.7	42.0	30.3	15.6	27.5	14.2	12.7	18.9	12.1
27		24.8	38.0	49.0	42.0	29.8	15.0	27.0	14.3	12.5	18.2	12.8
28		25.6	39.2	48.3	42.2	29.0	14.5	26.0	13.6	12.2	18.0	13.3
29			40.2	47.5	42.5	28.0	14.6	24.0	12.7	12.5	17.9	14.1
30			41.2	46.5	42.7	27.1	14.7	22.3	12.5	12.7	17.9	15.0
31			42.0		42.9		15.0	20.3		13.7		19.5

1899.

1	21.2	40.2	29.7	46.7	44.1	37.5	26.2	22.0	10.0	3.9	1.1	6.5
2	22.2	39.7	30.5	46.9	43.8	37.4	25.4	21.5	9.5	3.7	1.0	6.5
3	23.0	39.1	31.8	47.1	43.5	37.2	25.0	21.0	8.8	3.6	1.0	6.5
4	23.5	38.4	33.4	47.3	43.0	36.8	24.8	20.5	8.2	3.5	1.0	6.5
5	23.7	37.0	35.0	47.4	42.6	36.2	24.0	20.0	7.8	3.3	1.0	6.4
6	23.8	36.0	36.2	47.5	42.0	35.4	23.7	19.3	7.4	3.2	1.1	6.2
7	23.5	34.4	37.3	47.8	41.7	34.8	23.5	18.5	7.0	2.9	1.3	6.0
8	23.0	32.7	38.1	47.9	41.2	34.0	23.3	18.2	6.8	2.8	1.5	6.0
9	22.7	30.9	38.8	48.0	40.6	33.5	23.3	17.7	6.5	2.6	1.6	5.9
10	22.2	29.4	39.4	48.1	40.0	33.0	23.4	17.2	6.3	2.5	1.7	5.8
11	22.2	28.6	39.9	48.2	39.7	32.6	23.5	16.7	6.0	2.4	1.9	5.7
12	22.7	28.0	40.4	48.4	39.2	32.2	23.7	16.0	5.7	2.3	2.0	5.6
13	24.2	28.4	40.8	48.4	38.9	32.0	23.8	15.7	5.4	2.1	2.1	5.0
14	27.0	29.5	41.3	48.5	38.5	32.0	24.1	15.2	5.2	1.9	2.2	5.0
15	30.1	30.7	41.7	48.6	38.4	32.1	24.6	15.0	5.0	1.7	2.3	5.0
16	32.4	31.8	42.0	48.6	38.5	32.2	25.0	14.5	4.8	1.6	2.5	4.9
17	34.2	32.8	42.4	48.6	38.6	32.1	25.5	15.0	4.6	1.5	2.7	5.0
18	35.6	33.2	42.7	48.6	39.2	32.2	25.8	16.8	4.4	1.4	2.8	5.0
19	36.7	33.7	43.0	48.6	39.6	32.5	25.8	17.2	4.4	1.3	3.0	5.6
20	37.6	33.9	43.4	48.6	40.0	32.7	25.5	17.4	4.3	1.2	3.1	6.7
21	38.3	33.8	43.6	48.5	40.3	32.5	25.0	17.4	4.2	1.1	3.4	8.0
22	38.8	33.4	44.0	48.4	40.5	32.1	24.1	17.0	4.1	1.1	3.8	9.5
23	39.3	32.7	44.5	48.0	40.5	31.6	23.4	16.5	4.0	1.1	4.1	10.4
24	39.8	32.0	44.7	47.7	40.4	31.0	23.0	15.8	4.0	1.1	4.5	11.1
25	40.0	31.3	45.0	47.3	40.0	30.3	22.7	15.0	4.0	1.3	4.8	11.8
26	40.2	30.6	45.3	46.5	39.4	30.0	22.6	14.3	4.0	1.3	5.1	12.6
27	40.4	30.1	45.5	46.1	38.7	29.3	22.5	13.5	4.1	1.4	5.4	13.8
28	40.5	29.4	45.8	45.5	38.2	28.8	22.6	12.8	4.2	1.4	5.6	15.1
29	40.6		46.0	45.0	37.8	28.0	22.8	12.0	4.1	1.3	6.1	16.1
30	40.6		46.3	44.5	37.7	27.2	22.7	11.5	4.0	1.2	6.4	16.9
31	40.4		46.5		37.6		22.5	10.8		1.1		17.3

*Mississippi River system—Mississippi River, Greenville, Miss.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.9	9.0	24.1	28.0	19.4	28.0	17.0	27.7	11.6	5.0	3.7	8.2
2	24.5	9.5	22.6	28.5	18.6	28.6	16.9	28.0	11.2	5.1	3.7	8.0
3	25.0	10.0	21.0	28.8	17.9	29.1	16.9	27.9	10.8	5.0	3.8	8.1
4	25.6	10.8	19.4	29.1	17.5	29.5	17.0	27.8	10.3	4.9	3.9	8.8
5	25.9	11.7	17.9	29.4	17.4	29.9	17.4	27.5	9.9	4.7	3.8	10.7
6	26.0	12.8	17.0	29.7	17.6	30.1	17.9	27.3	9.5	4.4	3.8	13.1
7	25.8	14.0	16.1	30.2	18.0	30.3	18.3	27.2	9.2	4.2	3.7	15.0
8	25.5	16.0	15.7	30.6	18.4	30.5	18.7	27.0	8.9	4.0	3.8	16.4
9	25.0	18.4	15.3	31.0	18.6	30.5	19.1	26.8	8.6	3.8	3.9	17.4
10	24.4	20.3	15.1	31.4	18.7	30.4	19.4	26.6	8.2	3.7	4.2	18.1
11	23.5	21.8	14.9	31.8	18.6	30.1	19.2	26.4	7.7	4.0	4.6	18.6
12	22.7	22.9	14.9	32.2	18.3	29.7	20.0	26.2	7.2	4.5	5.1	18.7
13	21.8	23.9	15.1	32.6	18.0	29.2	20.1	26.0	6.6	5.3	5.4	18.4
14	20.9	24.5	15.3	33.0	17.6	28.6	20.1	26.7	6.0	6.2	5.8	17.8
15	19.8	25.0	15.5	33.4	17.3	28.0	20.0	25.4	5.5	7.3	6.1	16.8
16	18.7	25.5	15.7	33.8	17.1	27.4	19.8	24.9	5.0	8.2	6.1	15.9
17	17.8	26.0	15.9	34.1	17.0	26.7	19.4	24.1	4.6	8.7	6.1	14.9
18	16.5	26.6	16.1	34.3	16.9	26.0	18.9	23.1	4.2	8.9	5.9	14.0
19	15.5	27.2	16.3	34.5	16.8	25.3	18.4	21.9	3.8	8.7	5.8	13.2
20	14.5	27.7	16.4	34.6	16.6	24.4	18.2	20.5	3.4	8.3	5.9	12.6
21	13.5	28.2	16.5	34.3	16.3	23.3	18.4	19.0	3.2	7.8	6.8	12.2
22	12.8	28.6	16.7	33.6	16.1	22.1	18.7	17.5	3.0	7.2	6.9	12.2
23	11.9	28.8	17.1	32.5	15.8	21.0	19.1	16.0	2.9	6.7	7.5	12.5
24	11.1	28.8	17.9	30.9	16.2	19.9	19.5	15.0	3.0	6.1	7.9	12.9
25	10.5	28.6	19.1	28.9	17.4	19.2	19.9	13.9	3.0	5.6	8.1	13.3
26	10.0	28.2	20.3	26.8	19.2	18.6	20.7	13.0	3.1	5.0	8.1	13.7
27	9.7	27.5	21.9	24.9	21.4	18.2	22.0	12.6	3.3	4.6	8.2	13.6
28	9.4	26.6	23.6	23.2	23.3	17.9	23.4	12.3	3.6	4.2	8.2	13.4
29	9.2	25.5	25.1	21.7	25.0	17.6	24.8	12.2	4.1	3.8	8.3	13.0
30	9.0	-----	26.3	20.4	26.2	17.3	26.2	12.1	4.6	3.7	8.3	12.5
31	9.0	-----	27.3	-----	27.2	-----	27.2	12.0	-----	3.7	-----	12.0

1897.

1	11.5	23.6	30.2	45.4	45.2	29.6	16.4	14.0	7.4	0.8	-1.0	1.3
2	11.0	22.8	30.7	45.1	42.4	28.0	17.0	14.9	7.1	0.7	-1.1	1.6
3	10.6	21.8	31.4	44.9	42.3	26.4	17.6	16.0	7.0	0.7	-1.1	2.1
4	10.0	20.6	32.0	44.9	42.2	25.0	18.2	17.0	6.7	0.7	-1.1	2.4
5	9.6	19.5	32.5	44.8	42.0	23.7	18.9	17.7	6.5	0.6	-1.0	2.6
6	9.6	18.3	33.0	44.7	41.8	22.4	19.6	18.0	6.3	0.5	-1.0	2.7
7	10.7	17.3	33.4	44.6	41.6	21.2	20.0	18.1	6.1	0.4	-0.9	2.8
8	12.4	16.3	33.8	44.6	41.4	20.0	20.2	17.9	5.9	0.3	-0.9	3.0
9	14.4	15.9	34.3	44.6	41.2	19.0	20.3	17.4	5.6	0.2	-0.9	3.0
10	17.3	15.9	34.7	44.6	40.9	18.4	20.3	16.9	5.4	0.1	-0.9	3.0
11	20.3	16.2	35.2	44.6	40.7	18.0	20.2	16.1	5.0	0.0	-0.9	2.9
12	22.4	17.1	35.9	44.6	40.4	17.7	20.0	15.3	4.6	0.0	-1.0	2.8
13	23.6	18.4	36.5	44.6	40.2	17.4	19.5	14.5	4.3	-0.1	-1.0	2.7
14	24.0	20.0	37.1	44.6	39.8	17.2	19.0	13.8	4.0	-0.2	-1.0	3.2
15	23.8	22.1	37.8	44.6	39.5	17.0	18.6	13.3	3.8	-0.3	-1.0	3.7
16	23.1	24.0	38.6	44.6	39.2	16.8	18.3	13.2	3.5	-0.4	-1.0	4.1
17	22.3	25.9	39.2	44.5	38.9	16.4	18.2	13.0	3.3	-0.5	-0.8	4.3
18	21.4	27.2	39.8	44.4	38.6	16.0	17.9	12.7	3.1	-0.6	-0.7	4.3
19	20.6	28.3	40.5	44.3	38.4	15.1	17.6	12.1	2.9	-0.6	-0.5	4.3
20	20.0	29.1	41.1	44.1	38.0	15.5	17.0	11.6	2.7	-0.7	-0.3	4.2
21	19.7	29.5	41.9	44.0	37.6	14.7	16.2	11.1	2.4	-0.7	0.0	4.3
22	19.7	29.8	42.7	43.8	37.2	14.5	15.5	10.6	2.3	-0.8	0.3	4.5
23	20.0	30.0	43.4	43.7	36.8	14.6	14.7	10.2	2.0	-0.8	0.6	4.9
24	20.6	30.0	44.2	43.5	36.3	14.8	14.1	9.9	1.8	-0.9	0.8	5.3
25	21.3	29.9	44.9	43.4	36.0	14.8	13.7	9.5	1.6	-0.9	0.9	5.6
26	22.3	29.9	45.5	43.3	35.6	14.7	13.6	9.0	1.4	-1.0	0.9	5.7
27	23.2	29.8	46.1	43.1	35.1	14.8	13.5	8.7	1.3	-1.1	0.8	5.8
28	23.9	29.9	46.5	43.0	34.5	15.0	13.5	8.4	1.2	-1.1	0.8	6.4
29	24.2	-----	46.7	42.8	33.7	15.4	13.4	8.1	1.0	-1.1	0.9	7.8
30	24.3	-----	46.4	42.7	32.6	15.8	13.4	7.9	0.9	-1.2	1.1	9.6
31	24.1	-----	45.7	-----	31.2	-----	13.6	7.6	-----	-1.1	-----	11.1

Mississippi River system—Mississippi River, Greenville, Miss.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.1	35.1	21.4	36.5	40.3	36.8	21.9	12.0	15.6	9.7	12.3	14.7
2	12.7	35.5	21.7	37.3	39.1	36.6	21.5	11.9	14.2	9.5	12.7	14.6
3	12.8	35.9	21.8	38.3	38.1	36.3	21.4	12.0	13.1	9.5	12.8	14.6
4	12.6	36.2	21.8	39.1	37.0	35.9	21.6	12.2	12.4	9.9	13.1	14.7
5	12.1	36.5	21.6	39.9	36.0	35.4	22.1	12.4	12.0	10.4	13.8	14.6
6	11.6	36.8	21.4	40.7	35.1	34.6	22.5	12.5	11.6	10.9	14.6	14.4
7	11.0	37.1	21.2	41.3	34.4	33.8	22.9	12.9	11.3	11.3	15.1	13.8
8	10.3	37.3	20.8	41.9	34.0	32.8	23.1	13.9	10.8	11.3	15.1	13.2
9	9.6	37.5	20.3	42.4	33.9	31.9	22.9	15.2	10.0	11.0	15.0	12.4
10	8.9	37.7	19.6	42.9	34.1	31.0	22.4	16.1	9.3	10.7	14.4	11.6
11	8.2	37.9	18.8	43.2	34.4	30.1	21.7	16.6	8.6	10.3	13.6	11.0
12	7.6	37.8	17.9	43.7	34.7	29.2	20.8	16.9	8.1	9.9	12.9	10.5
13	7.2	37.6	16.9	44.1	35.1	28.3	20.2	17.1	7.9	9.5	12.2	10.1
14	7.3	37.2	16.0	44.5	35.5	27.5	19.9	17.1	8.3	9.0	11.5	9.8
15	8.0	36.4	15.2	44.9	36.0	26.3	19.9	17.1	9.1	8.8	11.0	9.7
16	9.0	34.8	16.1	45.2	36.4	25.1	20.0	17.6	10.0	9.0	10.8	9.7
17	10.8	32.6	17.4	45.5	36.9	24.2	19.9	18.4	10.8	9.7	10.8	9.7
18	14.1	30.1	18.7	45.7	37.3	23.6	19.5	19.3	11.4	10.4	11.1	9.7
19	18.3	27.5	20.2	46.1	37.7	23.0	19.0	19.9	11.9	11.1	11.5	9.7
20	21.7	25.0	22.2	46.1	37.8	23.4	18.2	20.6	12.1	11.5	12.2	9.5
21	24.2	23.2	24.3	46.2	37.7	24.2	17.3	21.5	12.1	11.4	12.9	9.3
22	26.4	21.7	26.1	46.1	37.5	24.5	16.4	22.3	11.8	11.1	13.9	9.1
23	28.1	20.6	27.5	46.1	37.1	24.8	15.5	22.9	11.5	10.9	14.7	9.0
24	29.5	19.9	28.6	45.8	36.6	25.1	14.5	23.2	11.2	10.6	15.3	8.9
25	30.7	19.6	29.8	45.3	36.2	25.2	13.7	23.2	11.3	10.3	15.6	9.1
26	31.7	19.8	30.9	44.7	36.0	25.1	12.9	22.8	11.4	9.9	15.7	9.6
27	32.5	20.4	32.0	44.1	36.0	24.7	12.2	22.1	11.4	9.8	15.6	10.7
28	33.3	20.9	32.9	43.3	36.1	24.2	11.7	21.1	11.1	9.9	15.5	11.6
29	33.9	-----	33.9	42.4	36.3	23.4	11.6	20.0	10.5	10.3	15.3	12.4
30	34.3	-----	34.8	41.4	36.5	22.6	11.8	18.6	10.1	11.0	15.0	13.5
31	34.7	-----	35.7	-----	36.7	-----	12.0	17.1	-----	11.7	-----	14.8

1899.

1	16.6	34.6	24.8	40.5	38.4	31.8	22.0	18.1	8.5	3.5	1.3	4.8
2	17.7	34.2	25.2	40.7	38.1	31.7	21.2	17.7	8.0	3.5	1.2	4.8
3	18.6	33.7	26.2	41.0	37.7	31.6	20.6	17.2	7.6	3.3	1.2	4.9
4	19.1	33.1	27.4	41.1	37.4	31.2	20.1	16.9	7.2	3.3	1.2	4.9
5	19.5	32.2	29.1	41.3	37.0	30.8	19.7	16.4	6.8	3.1	1.2	4.8
6	19.6	31.1	30.3	41.5	36.6	30.3	19.6	15.9	6.5	3.0	1.2	4.7
7	19.5	29.9	31.3	41.7	36.1	29.5	19.4	15.4	6.3	2.9	1.3	4.6
8	19.1	28.4	32.2	41.9	35.6	28.8	19.2	15.0	6.1	2.8	1.4	4.5
9	18.7	26.7	32.9	42.1	35.1	28.3	19.1	14.6	5.9	2.7	1.5	4.4
10	18.4	25.2	33.4	42.2	34.5	27.8	19.1	14.1	5.6	2.6	1.6	4.3
11	18.3	23.9	33.9	42.4	34.2	27.4	19.2	13.7	5.4	2.5	1.7	4.4
12	18.5	23.4	34.4	42.5	33.8	27.1	19.4	13.3	5.2	2.4	1.8	4.2
13	19.5	23.6	34.8	42.6	33.5	26.8	19.5	12.9	5.0	2.3	1.9	4.0
14	21.7	24.2	35.3	42.8	33.0	26.7	19.7	12.5	4.8	2.2	1.9	4.0
15	24.5	25.2	35.6	42.8	32.8	26.7	19.9	12.3	4.7	2.1	2.0	3.9
16	26.8	26.3	35.9	42.9	32.8	26.8	20.4	12.4	4.6	2.0	2.1	3.8
17	28.5	27.1	36.3	43.0	32.9	26.8	20.7	12.8	4.5	1.9	2.2	3.8
18	30.0	27.8	36.6	43.0	33.2	26.8	21.0	13.4	4.4	1.8	2.3	3.8
19	31.1	28.3	36.8	43.0	33.6	27.0	21.2	13.8	4.4	1.7	2.4	3.9
20	32.0	28.5	37.1	43.0	33.9	27.2	21.1	14.0	4.3	1.6	2.5	4.7
21	32.6	28.5	37.4	42.9	34.2	27.3	20.7	14.0	4.3	1.6	2.7	5.8
22	33.1	28.2	37.7	42.8	34.4	27.0	20.1	13.9	4.2	1.5	2.9	6.9
23	33.6	27.7	38.0	42.5	34.5	26.5	19.4	13.6	4.1	1.5	3.2	7.8
24	33.9	27.1	38.4	42.2	34.5	26.0	19.1	13.1	4.0	1.5	3.4	8.4
25	34.2	26.5	38.8	41.7	34.2	25.5	18.7	12.5	3.9	1.5	3.6	8.9
26	34.5	25.9	39.1	41.2	33.8	25.0	18.5	11.9	3.9	1.5	4.0	9.5
27	34.6	25.3	39.3	40.6	33.3	24.5	18.5	11.2	3.9	1.5	4.1	10.4
28	34.7	24.9	39.6	40.0	32.7	24.1	18.4	10.7	3.9	1.6	4.2	11.4
29	34.8	-----	39.8	39.4	32.3	23.5	18.5	10.2	3.8	1.5	4.6	12.4
30	34.8	-----	40.1	38.9	32.1	22.8	18.6	9.7	3.7	1.4	4.8	13.1
31	34.7	-----	40.3	-----	31.9	-----	18.4	9.1	-----	1.4	-----	13.5

DAILY RIVER STAGES.

Mississippi River system—Mississippi River, Vicksburg, Miss.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.6	9.1	30.0	30.1	27.0	28.5	19.4	28.3	12.2	2.7	2.0	7.5
2	24.5	10.1	28.9	31.0	26.2	29.5	19.0	29.3	11.7	3.3	1.8	7.3
3	25.6	10.8	27.6	31.7	24.5	30.5	18.7	29.8	11.5	3.6	1.7	7.3
4	26.4	11.4	26.2	32.1	23.6	31.3	18.6	29.9	11.1	3.7	1.8	7.3
5	27.2	12.3	24.4	32.5	22.4	31.8	18.5	30.1	10.6	3.7	1.9	7.8
6	27.5	13.3	22.9	33.0	21.1	32.2	18.6	29.9	10.1	3.5	2.2	8.5
7	28.0	14.3	21.6	33.3	20.6	32.7	19.0	29.8	9.5	3.3	2.4	11.6
8	28.2	15.8	20.4	33.7	20.7	33.1	19.5	29.7	9.0	2.9	2.4	14.0
9	28.0	17.7	19.4	34.4	20.9	33.4	19.9	29.6	8.6	2.3	2.5	16.0
10	27.6	20.2	18.6	34.8	21.1	33.4	20.3	29.5	8.3	2.3	2.4	17.0
11	26.9	22.1	18.4	35.2	21.2	33.3	20.7	29.2	8.0	2.2	2.3	18.0
12	26.2	24.1	18.1	35.6	21.2	33.2	21.1	29.0	7.6	2.3	2.7	19.0
13	25.2	25.4	17.8	36.0	20.8	33.1	21.3	28.9	6.8	2.7	3.1	19.4
14	24.4	26.4	17.7	36.6	20.6	32.7	21.6	28.6	6.2	3.3	3.5	19.4
15	23.3	27.4	17.8	37.2	20.2	32.2	21.7	28.3	5.6	4.3	4.0	19.0
16	22.3	28.2	18.0	37.7	19.8	31.7	21.7	28.1	4.8	5.5	4.5	18.4
17	21.2	28.8	18.2	38.0	19.3	31.1	21.6	27.7	4.2	6.7	4.6	17.1
18	19.9	29.5	18.3	38.4	19.2	30.5	21.5	27.1	3.5	7.5	4.5	15.7
19	18.7	30.0	18.6	38.6	18.9	29.9	20.8	26.2	3.0	7.8	4.4	15.1
20	17.6	30.8	19.0	38.8	18.6	29.5	20.2	25.1	2.8	7.8	4.3	14.1
21	16.3	31.0	19.2	39.0	18.3	28.2	20.0	23.8	2.4	7.6	4.3	13.3
22	15.4	31.5	19.4	39.0	18.2	27.2	19.9	22.3	2.1	7.1	4.2	12.7
23	14.7	32.1	19.5	38.7	17.8	26.0	19.8	20.7	1.7	6.6	5.1	12.3
24	13.7	32.5	20.0	38.0	17.5	24.8	20.4	19.1	1.5	6.1	5.9	12.3
25	12.6	32.6	20.5	37.1	17.5	23.7	20.8	17.6	1.0	5.4	6.5	12.5
26	11.5	32.5	21.4	35.8	18.2	22.5	21.2	16.1	1.0	4.6	7.1	13.0
27	10.6	32.3	22.6	34.2	19.9	21.7	21.8	14.8	1.4	3.8	7.2	13.5
28	10.1	31.6	24.2	32.4	21.8	20.9	22.9	13.8	1.7	3.4	7.2	13.7
29	9.6	31.0	25.7	30.6	24.0	20.3	24.4	13.1	1.9	2.9	7.2	13.8
30	9.4	-----	27.4	28.6	25.8	19.8	25.8	12.8	2.1	2.5	7.5	13.4
31	9.0	-----	28.7	-----	27.4	-----	27.2	12.6	-----	2.1	-----	13.1

1897.

1	12.6	26.9	32.8	49.4	51.9	43.4	18.2	15.2	8.6	0.2	-3.0	-0.7
2	12.0	26.6	33.3	49.4	51.8	42.5	18.2	15.6	8.0	0.0	-3.1	-0.8
3	11.1	25.6	34.0	49.3	51.7	41.5	18.5	16.0	7.2	-0.2	-3.1	-0.5
4	10.2	24.7	34.4	49.2	51.7	40.4	20.4	17.7	6.6	-0.8	-3.3	0.3
5	10.0	23.9	34.9	49.2	51.6	39.0	21.0	18.5	6.5	-0.9	-3.4	1.5
6	9.9	23.1	35.5	49.3	51.5	37.8	21.3	19.3	6.2	-1.0	-3.4	2.1
7	9.7	21.7	36.4	49.4	51.4	36.2	22.4	19.9	6.0	-1.0	-3.4	2.6
8	10.1	20.3	36.9	49.6	51.3	34.7	22.7	20.6	6.0	-1.0	-3.4	3.0
9	11.5	19.5	37.5	49.9	51.2	33.1	23.3	20.6	6.0	-0.8	-3.4	3.2
10	14.7	19.1	37.9	50.2	51.1	31.6	23.9	20.3	5.9	-0.9	-3.4	3.4
11	16.8	18.6	38.4	50.5	50.9	30.4	23.9	20.0	5.7	-1.0	-3.4	3.6
12	20.1	18.0	38.9	50.9	50.8	29.0	24.0	19.3	5.5	-1.1	-3.4	3.8
13	22.5	18.5	39.4	51.3	50.6	28.0	23.9	18.4	5.3	-1.2	-3.3	3.9
14	24.1	19.5	39.9	51.5	50.5	27.2	23.8	17.5	5.0	-1.2	-3.1	3.9
15	25.0	24.4	40.5	51.9	50.2	26.4	22.8	16.7	4.7	-1.2	-3.0	3.5
16	25.3	23.3	41.3	52.3	50.0	25.8	22.3	15.8	4.5	-1.3	-2.8	3.1
17	25.5	25.6	41.9	52.2	49.7	24.9	22.0	15.0	4.3	-1.4	-2.8	3.1
18	24.6	27.4	42.7	51.9	49.4	24.3	21.6	14.5	4.4	-1.5	-2.6	3.3
19	23.2	29.4	43.5	51.9	49.0	23.1	21.4	14.3	4.2	-1.7	-2.6	3.6
20	22.7	31.0	44.3	51.7	48.7	22.0	21.1	14.2	4.1	-1.8	-2.6	4.4
21	22.3	31.6	45.1	51.7	48.3	21.1	20.9	14.0	3.5	-1.8	-2.3	4.4
22	21.9	32.0	46.1	51.6	48.0	20.3	20.0	14.2	3.2	-2.0	-2.3	4.4
23	21.6	32.6	46.8	51.6	47.6	19.4	19.1	12.5	3.0	-2.1	-1.7	4.4
24	21.8	33.0	47.4	51.6	47.2	18.9	18.3	11.9	2.5	-2.2	-1.4	4.5
25	22.3	33.3	47.8	51.8	46.8	18.5	17.4	11.2	2.2	-2.3	-0.9	5.2
26	22.6	33.3	48.8	52.0	46.4	18.5	16.7	10.7	1.7	-2.5	-0.7	5.6
27	23.8	33.0	47.9	52.0	46.0	18.3	16.2	10.3	1.4	-2.5	-0.7	6.0
28	24.4	32.9	48.4	51.9	45.6	18.1	16.0	9.9	1.3	-2.5	-0.7	6.8
29	25.5	-----	48.8	51.9	45.1	18.1	15.7	9.4	1.1	-2.6	-0.6	7.5
30	26.2	-----	49.3	51.9	44.8	18.1	15.7	9.0	1.0	-2.8	-0.5	7.7
31	26.7	-----	49.4	-----	44.2	-----	15.2	8.8	-----	-2.9	-----	7.9

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, Vicksburg, Miss.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.9	39.7	26.2	39.4	47.8	42.0	27.0	13.6	20.5	11.4	12.0	16.5
2	8.1	40.1	26.5	40.1	47.3	42.0	26.2	13.5	18.9	10.9	12.7	16.2
3	8.3	40.5	26.6	40.8	46.7	42.0	25.4	13.5	17.3	10.5	13.3	16.0
4	12.0	41.0	26.8	41.6	46.1	41.9	25.0	13.5	15.8	10.3	13.5	16.0
5	14.5	41.3	26.7	42.3	45.5	41.7	25.0	13.7	14.7	10.5	13.8	15.9
6	14.4	41.6	26.6	43.0	44.9	41.4	25.0	13.8	13.8	10.9	14.3	15.9
7	14.4	42.0	26.4	43.7	44.1	41.0	25.3	14.0	13.1	11.5	15.0	15.5
8	14.6	42.1	26.1	44.4	43.5	40.4	25.7	14.3	12.7	11.9	15.7	15.2
9	13.0	42.4	25.7	45.0	42.9	39.7	26.1	15.1	12.0	12.2	16.0	14.7
10	11.4	42.6	25.2	45.5	42.5	39.0	26.1	16.5	11.2	12.2	16.3	13.9
11	10.3	42.9	24.5	45.9	42.2	38.1	25.8	17.6	10.4	11.7	15.8	13.1
12	9.8	43.0	23.6	46.3	42.0	37.2	25.3	18.2	9.6	11.4	15.2	12.3
13	9.3	43.0	22.8	46.8	41.9	36.1	24.4	18.8	9.2	10.9	14.7	11.6
14	8.9	43.0	21.6	47.2	41.9	35.1	23.7	19.0	8.6	10.4	13.9	11.0
15	8.9	42.8	20.7	47.5	41.9	34.0	23.3	19.2	8.7	9.9	13.0	10.5
16	9.4	42.4	19.9	47.8	42.0	32.7	22.9	19.2	9.2	9.5	12.3	10.2
17	9.8	41.7	19.2	48.2	42.1	31.4	22.8	19.6	10.0	9.5	11.9	10.0
18	11.2	40.6	20.3	48.4	42.3	30.2	22.7	20.3	10.9	9.9	11.6	10.0
19	12.6	39.1	21.4	48.7	42.5	29.1	22.4	21.0	11.6	10.6	11.7	10.3
20	18.4	37.3	22.8	48.9	42.7	28.3	21.9	21.9	12.3	11.4	12.0	10.2
21	25.6	35.2	24.6	49.0	42.8	27.9	21.3	22.6	13.4	12.1	12.5	10.1
22	28.3	33.1	26.7	49.2	42.9	28.0	20.5	23.5	13.6	12.3	13.4	9.9
23	29.4	31.1	28.7	49.3	42.9	28.2	19.6	24.3	13.3	12.1	14.3	9.6
24	31.6	29.3	30.5	49.4	42.8	28.5	18.6	25.0	12.9	11.9	15.1	9.4
25	33.5	27.8	32.0	49.4	42.6	28.7	17.6	25.8	12.6	11.4	15.9	9.4
26	35.0	26.7	33.3	49.3	42.3	28.8	16.5	25.8	12.4	11.3	16.5	9.4
27	36.2	26.2	34.5	49.2	42.1	28.8	15.5	25.6	12.3	10.9	16.8	9.8
28	37.1	26.0	35.6	48.9	41.9	28.7	14.5	25.0	12.4	10.6	16.9	10.6
29	38.0		36.7	48.6	41.9	28.4	14.0	24.2	12.2	10.5	17.0	11.7
30	38.6		37.7	48.3	41.9	27.8	13.5	23.2	12.0	10.7	16.8	12.6
31	39.2		38.5		42.0		13.4	21.9		11.3		13.8

1899.

1	15.2	39.6	30.0	45.0	45.6	37.1	26.7	20.7	9.6	2.2	-1.2	2.6
2	16.9	39.6	29.8	45.1	45.2	37.0	25.8	20.5	9.0	2.0	-1.2	2.8
3	18.4	39.4	29.9	45.3	44.9	36.8	25.0	20.0	8.2	1.9	-1.4	2.8
4	19.5	39.0	30.5	45.6	44.6	36.5	24.0	19.8	7.6	1.8	-1.4	2.8
5	20.5	38.5	31.5	45.7	44.3	36.3	23.2	19.3	7.1	1.6	-1.6	2.8
6	22.0	38.0	32.7	46.0	43.9	35.9	22.8	18.8	6.6	1.4	-1.6	2.8
7	23.1	37.1	33.9	46.2	43.6	35.4	22.3	18.2	6.2	1.3	-1.6	2.8
8	23.3	36.1	35.0	46.3	43.2	34.7	22.0	17.7	5.8	1.1	-1.4	2.6
9	22.9	34.7	36.0	46.5	42.8	34.1	21.6	17.1	5.5	1.0	-1.3	2.6
10	22.6	33.4	36.7	46.6	42.4	33.5	21.5	16.5	5.2	0.8	-1.2	2.4
11	22.5	31.8	37.4	46.7	41.5	32.8	21.3	16.0	5.0	0.7	-1.1	3.0
12	22.3	30.5	38.0	46.8	41.4	32.3	21.4	15.5	4.7	0.6	-1.0	3.0
13	22.4	29.2	38.5	46.9	41.1	31.9	21.5	14.9	4.4	0.5	-0.9	2.6
14	23.0	28.5	39.2	47.1	40.6	31.5	21.6	14.4	4.1	0.4	-0.8	2.4
15	24.7	28.7	39.8	47.2	40.2	31.1	21.8	13.9	3.9	0.2	-0.8	2.2
16	27.3	29.3	40.2	47.3	39.6	30.9	22.0	13.5	3.7	0.0	-0.6	2.1
17	29.8	30.1	40.6	47.3	39.3	30.8	22.4	13.4	3.5	-0.1	-0.6	2.0
18	31.7	31.1	40.9	47.3	39.2	30.7	22.8	13.7	3.3	-0.3	-0.4	2.0
19	33.4	31.8	41.3	47.3	39.1	30.7	23.1	14.1	3.2	-0.4	-0.3	2.0
20	34.7	32.5	41.6	47.3	39.1	30.9	23.3	14.6	3.2	-0.5	-0.2	2.3
21	35.7	32.8	41.9	47.3	39.1	31.0	23.4	14.9	3.0	-0.6	0.0	2.7
22	36.6	33.0	42.2	47.3	39.4	30.9	23.3	15.1	3.0	-0.7	0.1	3.6
23	37.1	33.0	42.5	47.3	39.4	30.9	22.8	15.0	2.9	-0.8	0.3	5.0
24	37.8	32.5	42.9	47.3	39.4	30.6	22.3	14.8	2.8	-0.9	0.6	6.1
25	38.2	32.0	43.1	47.2	39.4	30.1	21.7	14.3	2.6	-1.0	0.9	7.0
26	38.4	31.6	43.6	47.0	39.2	29.6	21.3	13.7	2.5	-1.0	1.3	7.8
27	38.7	31.1	43.8	46.8	39.1	29.1	21.0	13.1	2.4	-1.0	1.6	8.5
28	39.0	30.5	44.1	46.5	38.7	28.6	20.9	12.4	2.4	-0.9	1.8	9.5
29	39.4		44.4	46.2	38.4	28.0	20.7	11.7	2.4	-0.9	1.9	10.6
30	39.4		44.5	45.9	37.9	27.4	20.8	11.0	2.3	-0.9	2.2	11.7
31	39.6		44.8		37.4		20.8	10.3		-1.0		12.7

DAILY RIVER STAGES.

*Mississippi River system—Mississippi River, Donaldsonville, La.***1897.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1				27.8	31.9	30.2						
2				28.0	32.0	29.8						
3				28.2	32.0	29.6						
4				28.3	32.1	29.3						
5				28.3	32.2	29.0						
6				28.4	32.4	28.6						
7				28.5	32.4	28.1						
8				28.7	32.6	27.7						
9				28.7	32.6	27.0						
10				28.8	32.7	26.1						
11				29.0	32.7	25.2						
12				29.2	32.7	24.1						
13				29.4	32.8	23.0						
14				29.6	32.8	22.0						
15				29.9	32.8	21.1						
16				30.2	32.8							
17				30.4	32.8							
18				30.7	32.6							
19				30.8	32.6							
20				30.9	32.6							
21				31.0	32.4							
22				31.2	32.3							
23				31.3	32.2							
24				31.3	32.1							
25				31.4	31.9							
26				31.5	31.8							
27				31.5	31.6							
28				31.6	31.4							
29				31.8	31.2							
30				31.9	30.9							
31					30.6							

DAILY RIVER STAGES.

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Mississippi River system—Mississippi River, New Orleans, La.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.6	5.2	12.6	10.5	12.6	8.5	6.9	6.8	5.2	3.7	3.7	4.2
2	6.3	5.2	12.4	10.9	12.1	9.2	6.6	7.4	5.3	3.4	3.5	4.0
3	6.8	5.2	12.1	11.5	11.6	10.0	6.4	7.7	5.2	3.5	3.3	3.4
4	7.0	5.6	11.9	11.6	11.2	10.6	6.3	8.0	5.2	3.3	3.3	3.2
5	7.4	6.2	11.5	11.8	10.8	10.8	6.2	8.2	4.7	3.0	3.3	3.4
6	7.8	6.3	11.2	12.0	10.3	11.0	6.2	8.4	4.2	2.9	3.3	3.4
7	8.0	6.2	10.9	12.2	9.8	11.3	6.3	8.5	4.0	2.9	3.5	3.8
8	8.4	6.4	10.5	12.4	9.4	11.5	6.9	8.6	3.8	2.9	3.7	4.2
9	8.7	6.4	10.1	12.7	9.0	11.4	6.4	8.7	3.8	3.0	3.9	4.7
10	8.8	6.6	9.8	13.0	8.6	11.5	6.1	8.7	3.8	4.7	3.9	5.1
11	8.9	7.1	-----	13.1	8.5	11.5	5.9	8.7	3.8	4.3	3.8	5.2
12	9.0	7.9	-----	13.3	8.4	11.7	5.7	8.7	3.9	4.0	3.7	5.7
13	9.0	8.6	-----	13.5	8.4	11.7	5.7	8.8	4.1	3.9	3.3	5.7
14	8.9	9.5	-----	14.0	8.3	11.7	5.7	8.9	4.2	3.7	3.6	5.8
15	9.0	9.9	8.3	14.2	8.1	11.6	5.8	9.0	4.3	3.5	3.3	5.8
16	9.0	10.2	8.2	14.0	8.0	11.4	5.8	9.1	4.2	3.3	3.3	5.6
17	8.8	10.4	8.1	13.8	7.8	11.4	5.9	8.9	4.0	3.5	3.3	5.4
18	8.5	10.5	8.1	13.9	7.6	11.5	5.9	8.8	3.6	3.5	3.2	5.2
19	8.1	10.5	8.1	14.2	7.4	11.3	5.9	8.6	3.4	3.3	3.4	4.9
20	7.7	10.8	8.0	14.3	7.4	11.2	6.0	8.4	3.2	3.4	3.3	4.8
21	7.3	11.1	7.9	14.3	7.2	11.0	5.9	8.1	3.3	3.4	3.6	4.7
22	7.3	11.3	7.9	14.5	7.0	10.7	5.6	7.9	3.4	3.4	3.8	4.6
23	7.4	11.6	8.0	14.7	6.9	10.3	5.4	7.6	3.5	3.7	3.9	4.5
24	7.4	11.9	8.2	14.5	6.8	9.9	5.3	7.1	3.5	3.7	4.3	4.2
25	6.9	12.2	8.3	14.5	6.6	9.4	5.2	6.6	3.8	3.8	4.3	4.5
26	6.5	12.3	8.5	14.3	6.5	9.3	5.2	6.2	4.0	3.8	4.5	4.2
27	6.0	12.5	8.7	14.1	6.4	8.6	5.3	5.6	4.0	3.9	4.6	3.9
28	5.5	12.8	9.0	13.9	6.5	7.9	5.5	5.3	4.0	4.0	4.4	4.2
29	5.2	12.9	9.3	13.5	6.7	7.4	5.7	5.3	3.8	4.1	4.2	4.1
30	5.2	-----	9.6	13.0	7.3	7.2	5.9	5.2	4.0	4.1	4.1	4.2
31	5.2	-----	10.0	-----	7.9	-----	6.3	5.3	-----	3.9	-----	4.5

1897.

1	5.1	9.2	11.2	17.4	19.2	18.0	6.7	4.5	3.6	4.5	3.5	3.5
2	4.9	9.1	11.3	17.5	19.3	17.7	6.5	4.5	3.8	4.1	3.0	3.3
3	5.7	9.3	11.5	17.6	19.3	17.5	6.5	4.5	4.1	3.8	2.8	3.3
4	4.6	9.2	11.5	17.7	19.3	17.4	6.5	4.8	4.1	3.8	2.7	3.0
5	4.6	9.6	11.8	17.6	19.3	17.2	6.5	5.2	4.3	3.6	2.8	2.3
6	4.2	9.1	11.9	17.6	19.3	17.0	6.5	5.4	4.3	3.1	2.5	2.3
7	3.9	8.7	12.4	17.6	19.3	16.8	6.7	5.4	4.1	3.2	2.4	2.5
8	3.8	8.6	12.5	17.7	19.4	16.6	6.8	5.4	3.8	3.1	2.5	2.5
9	3.8	8.4	12.6	17.8	19.4	16.0	7.0	5.4	4.1	2.9	2.7	2.9
10	3.4	8.2	12.7	17.9	19.4	15.8	7.1	5.7	4.0	2.9	2.5	3.3
11	3.7	8.1	12.7	18.0	19.4	15.2	7.1	5.5	4.0	3.1	3.0	3.0
12	4.2	8.0	13.1	18.0	19.4	14.7	7.0	5.5	6.0	3.3	2.9	3.2
13	5.0	7.7	13.1	18.2	19.5	14.1	7.0	5.3	4.7	3.3	3.0	4.1
14	6.0	7.5	13.0	18.4	19.4	13.5	6.8	5.3	4.1	3.4	3.0	3.3
15	6.8	7.5	13.2	18.5	19.3	13.0	6.6	5.2	3.7	3.8	3.0	2.9
16	7.4	7.7	13.5	18.6	19.3	12.5	6.6	5.0	3.6	3.8	3.3	2.9
17	7.9	7.9	13.9	18.8	19.3	12.1	6.5	4.9	3.9	4.0	3.3	3.0
18	8.2	8.5	14.2	18.8	19.2	11.6	6.6	5.0	4.0	4.2	3.2	2.5
19	8.5	8.9	14.5	18.9	19.2	11.2	6.5	5.0	4.0	4.2	3.3	2.5
20	8.6	9.3	14.7	18.9	19.1	10.9	6.5	5.2	3.9	4.0	2.9	2.4
21	8.1	10.0	14.7	19.0	19.0	10.5	6.5	5.2	3.6	3.5	2.5	2.5
22	7.8	10.9	15.0	19.0	19.1	10.0	6.3	5.0	3.8	3.2	2.5	2.9
23	7.8	10.8	15.4	19.0	19.0	9.5	6.3	4.6	3.3	2.7	2.7	3.1
24	7.4	10.9	15.3	18.9	18.9	9.1	6.0	4.2	2.9	3.4	2.8	3.5
25	7.3	11.0	15.6	19.0	18.8	8.6	5.4	4.2	2.7	2.6	3.1	3.9
26	7.5	11.1	15.8	19.1	18.7	8.2	5.4	4.0	2.5	2.6	3.3	3.8
27	7.4	11.2	16.0	19.1	18.6	7.8	5.4	3.8	2.7	3.3	3.7	3.8
28	7.4	11.2	16.1	19.1	18.5	7.5	4.8	3.7	2.9	3.0	3.8	3.5
29	7.6	-----	16.8	19.3	18.4	7.2	4.5	3.6	3.8	3.3	3.8	3.3
30	8.1	-----	16.9	19.2	18.3	7.2	4.5	3.6	4.5	3.7	3.8	3.2
31	8.8	-----	17.1	-----	18.2	-----	4.5	3.8	-----	3.8	-----	3.4

Mississippi River system—Mississippi River, New Orleans, La.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.3	12.9	10.8	13.4	17.0	14.8	10.5	4.5	6.7	5.7	3.8	6.1
2	3.2	13.1	10.6	13.6	16.9	14.9	9.8	4.3	6.4	5.3	4.3	6.2
3	2.8	13.2	10.7	13.8	16.9	14.9	9.6	4.1	6.2	5.9	4.4	6.2
4	3.0	13.6	10.6	14.0	16.8	14.8	9.2	4.1	6.1	5.3	4.9	5.8
5	3.8	13.8	10.6	14.4	16.7	14.7	8.8	4.2	5.5	4.7	4.9	5.4
6	4.6	13.9	10.5	14.5	16.6	14.7	8.6	4.5	5.3	4.7	5.0	5.2
7	4.6	14.0	10.4	14.4	16.3	14.7	8.6	4.7	5.4	4.9	5.0	5.1
8	4.8	14.3	10.4	14.6	16.3	14.7	8.4	4.8	5.0	4.9	5.0	5.3
9	4.8	14.3	10.3	14.7	16.0	14.6	8.4	4.9	5.4	4.9	5.0	5.8
10	4.6	14.6	10.2	14.9	15.8	14.4	8.5	4.8	5.5	5.0	5.4	5.6
11	4.4	14.8	10.0	14.9	15.3	14.5	8.6	4.9	5.2	5.0	5.5	5.1
12	4.6	14.7	9.8	15.1	15.4	14.2	9.1	4.9	5.4	4.8	5.4	5.2
13	4.4	14.6	9.6	15.6	15.4	14.3	9.0	4.9	4.8	4.5	5.4	4.9
14	4.2	14.7	9.5	15.5	15.3	13.9	8.6	5.0	4.5	4.3	5.4	4.8
15	3.9	14.9	9.0	15.8	15.2	13.8	8.6	5.2	4.5	4.4	5.6	4.7
16	3.8	14.7	8.7	15.8	15.2	13.3	8.4	5.3	3.9	4.4	5.4	4.8
17	3.7	15.0	8.7	15.9	15.0	12.9	7.9	5.3	4.0	4.7	5.5	4.8
18	3.9	14.8	8.0	16.2	15.0	12.6	7.7	5.6	4.0	4.4	5.5	4.7
19	4.5	14.8	7.9	16.5	14.9	12.2	7.5	5.6	4.2	4.4	5.1	4.5
20	5.0	14.6	7.8	16.2	14.9	11.7	7.3	5.9	5.5	4.7	4.9	4.5
21	5.9	14.0	7.8	16.3	14.9	11.3	7.1	6.1	5.4	4.7	4.9	4.6
22	7.2	13.7	8.0	16.7	14.8	10.9	6.8	6.3	5.4	4.9	4.9	4.5
23	7.9	13.3	8.4	16.6	14.8	10.2	6.6	6.5	5.4	4.4	4.9	4.3
24	8.8	12.6	9.1	16.8	14.8	10.3	6.6	6.7	5.3	4.2	5.0	4.1
25	9.7	12.0	9.9	16.8	14.8	10.3	6.4	6.9	5.2	4.4	5.2	4.0
26	10.0	11.8	10.3	16.8	15.0	10.3	6.1	7.0	5.1	4.2	5.6	4.0
27	10.0	11.4	10.6	16.9	14.8	10.4	5.5	7.1	4.8	4.2	5.8	3.8
28	11.4	11.1	11.6	16.9	14.9	10.4	5.3	7.3	4.7	3.8	5.8	3.8
29	11.6	-----	11.9	16.8	14.9	10.5	5.0	7.4	5.1	3.8	5.9	3.9
30	12.1	-----	12.5	16.8	14.8	10.5	4.9	7.3	5.1	3.8	6.0	4.3
31	12.6	-----	12.9	-----	14.8	-----	4.5	7.1	-----	3.7	-----	4.3

1899.

1	4.3	14.0	12.0	15.5	16.6	13.5	10.0	5.9	4.6	3.2	2.8	3.0
2	4.8	14.2	11.9	15.7	16.5	13.4	9.8	5.8	4.4	3.4	3.0	2.9
3	5.3	14.3	11.7	15.8	16.5	13.4	9.3	5.7	4.2	4.0	2.5	2.9
4	5.6	14.2	11.6	15.9	16.5	13.3	8.9	5.7	3.8	4.6	2.5	2.9
5	6.0	14.2	11.4	16.0	16.3	13.3	8.4	5.7	3.9	4.0	2.9	2.9
6	6.6	14.2	11.3	16.1	16.3	13.0	7.9	5.6	3.9	3.8	3.0	3.6
7	7.8	14.3	11.2	16.4	16.3	13.2	7.5	5.4	3.9	3.4	3.4	2.9
8	7.8	14.3	11.7	16.3	16.0	13.0	7.0	5.3	3.8	3.6	3.9	2.9
9	8.4	13.9	12.2	16.3	16.0	12.7	6.5	5.4	3.9	3.0	3.9	3.0
10	8.7	13.8	12.8	16.4	15.9	12.6	6.3	5.1	3.9	3.6	3.5	3.5
11	8.7	13.5	13.1	16.3	15.7	12.6	6.3	5.2	4.0	4.0	3.5	4.3
12	8.7	13.5	13.6	16.4	15.5	12.2	6.3	4.9	4.0	3.7	3.0	4.3
13	8.8	12.6	13.7	16.5	15.4	12.0	6.3	5.1	4.4	3.5	3.0	3.5
14	8.8	12.0	13.9	16.6	15.2	11.9	6.3	5.1	4.2	3.5	2.9	3.4
15	8.7	11.8	14.0	16.6	15.0	11.7	6.2	5.1	4.1	3.0	2.9	3.2
16	8.8	11.9	13.9	16.8	15.0	11.6	6.2	5.0	3.9	3.3	2.9	3.3
17	9.0	11.6	14.0	16.9	14.9	11.5	6.2	4.8	4.0	3.0	3.0	3.4
18	9.9	11.7	14.4	16.8	14.9	11.4	6.4	4.6	3.9	2.9	3.3	3.6
19	10.7	11.5	14.5	16.9	14.5	11.4	6.5	4.3	3.5	3.0	3.5	3.3
20	10.9	11.9	14.5	16.8	14.4	11.3	6.4	4.1	3.5	2.9	3.9	3.3
21	10.9	12.3	14.6	16.9	14.3	11.2	6.4	4.1	3.3	3.0	3.9	3.6
22	12.3	12.5	14.8	17.2	14.2	11.1	6.6	4.3	3.7	3.3	4.0	3.7
23	12.6	12.6	14.9	16.8	14.2	10.9	6.7	4.4	3.5	3.7	3.9	3.3
24	13.0	12.6	15.0	16.8	14.2	10.8	6.3	4.7	3.5	4.0	4.0	3.0
25	13.0	12.6	15.0	16.9	14.1	10.8	6.3	4.6	3.9	4.3	3.9	3.0
26	13.3	12.9	15.2	16.8	14.2	10.7	6.3	4.7	4.0	4.0	3.9	2.9
27	13.6	12.6	15.4	16.9	13.9	10.6	6.2	4.7	3.7	4.3	3.3	3.0
28	14.0	12.1	15.4	16.9	13.8	10.4	6.1	4.8	3.6	4.0	2.9	3.2
29	14.0	-----	15.4	16.7	13.7	10.2	6.0	4.8	3.3	3.0	3.0	3.5
30	14.0	-----	15.5	16.7	13.6	10.2	5.9	4.7	3.3	3.5	3.0	3.4
31	14.1	-----	15.5	-----	13.6	-----	5.8	4.8	-----	3.3	-----	3.4

DAILY RIVER STAGES.

173

Mississippi River system—Des Moines River, Des Moines, Iowa.

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1							3.7	3.6	3.7	3.0	3.7	Frozen.
2							3.7	3.6	3.6	3.0	3.7	
3							3.6	4.0	3.6	3.0	3.7	
4							3.6	4.0	3.6	3.0	3.7	
5							3.6	4.0	3.5	3.0	3.8	
6							3.6	4.0	3.5	3.0	3.8	
7							3.5	4.0	3.5	3.0	3.8	
8							3.5	3.9	3.4	3.0	3.8	
9							3.5	3.8	3.4	3.0	3.9	
10							3.6	3.7	3.4	3.0	3.9	
11							3.6	3.7	3.5	3.1	3.9	
12							3.8	3.6	3.5	3.2	3.9	
13							3.8	3.7	3.4	3.3	3.9	
14							3.7	3.8	3.4	3.3	3.9	
15							3.7	3.7	3.4	3.4	3.9	
16							3.7	3.7	3.5	3.6	3.9	
17							3.7	3.7	3.6	3.7	3.9	
18							3.7	3.6	3.6	3.8	3.9	
19							3.7	3.6	3.5	3.8	3.9	
20							3.7	3.6	3.5	3.8	3.9	
21							3.7	3.7	3.4	3.7	3.9	
22							3.7	3.9	3.3	3.7	3.9	
23							3.7	3.9	3.3	3.7	3.9	
24							3.7	3.9	3.3	3.7	3.9	
25							3.7	3.9	3.2	3.6	3.9	
26							3.7	3.8	3.1	3.7	3.9	
27							3.7	3.8	3.1	3.7	3.9	
28							3.7	3.8	3.0	3.7	3.9	
29							3.7	3.7	3.0	3.8	Frozen.	
30							3.6	3.7	3.0	3.7	Frozen.	
31							3.6	3.7		3.7		

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	4.1	4.2	4.5	3.8	2.8	3.1	3.0	3.1	2.5
2				4.2	4.2	4.5	3.8	2.8	3.2	2.9	3.0	Frozen.
3				4.2	4.1	4.5	3.8	2.8	3.2	2.9	3.0	2.5
4				4.2	4.1	4.5	3.8	2.8	3.2	2.9	3.0	Frozen.
5			3.5	4.3	4.1	4.3	3.7	2.8	3.1	2.9	3.0	
6			3.5	4.3	4.1	4.2	3.7	2.8	3.1	2.9	3.0	
7			3.6	4.3	4.0	4.0	3.7	2.8	3.1	2.9	2.9	
8			3.6	4.2	4.0	3.8	3.7	2.8	3.0	2.9	2.8	
9			3.7	4.2	4.0	3.8	3.7	2.8	3.0	2.9	2.8	
10			3.8	4.1	3.9	6.0	3.7	2.7	3.0	2.9	2.8	
11			3.8	4.2	3.9	8.6	3.7	2.7	3.0	2.9	2.8	
12			3.9	4.2	4.0	5.2	3.4	2.7	3.0	2.9	2.8	
13			4.0	4.2	4.0	5.1	3.2	2.8	3.0	2.8	2.8	
14			4.0	4.1	4.0	5.1	3.0	2.8	3.0	2.8	2.9	
15			4.0	4.1	4.0	5.3	3.0	2.8	2.9	2.8	3.0	
16			4.0	4.1	3.9	4.7	3.0	2.8	2.9	2.8	3.0	
17			4.2	4.1	3.9	4.7	3.0	2.8	2.9	2.9	3.0	
18			4.3	4.3	3.9	4.5	3.0	2.8	2.9	3.0	2.9	
19			4.3	4.4	3.9	5.6	2.9	2.8	2.9	3.0	2.9	
20			4.3	4.4	3.9	5.3	2.9	2.8	2.9	3.0	2.9	
21			4.4	4.4	3.9	5.1	2.9	2.8	2.9	3.0	3.3	
22			4.4	4.4	4.0	4.7	2.9	2.8	2.9	3.0	3.3	2.2
23			4.6	4.4	4.0	5.0	2.9	2.9	2.9	3.0	Frozen.	2.2
24			4.6	4.3	4.0	4.5	2.8	3.0	2.9	3.0	Frozen.	
25			4.2	4.3	4.5	4.3	2.8	3.0	2.9	3.0		2.2
26			4.0	4.3	4.6	3.9	2.8	3.1	2.8	3.0		2.2
27			4.0	4.3	4.6	3.8	2.8	3.1	2.9	3.1		2.2
28			4.0	4.3	4.6	3.8	2.8	3.1	2.9	3.1		2.2
29			4.0	4.2	4.6	3.8	2.9	3.1	2.9	3.2		2.7
30			4.0	4.2	4.5	3.7	2.8	3.1	3.0	3.2	3.0	Frozen.
31			4.0		4.5		2.8	3.1		3.1		

DAILY RIVER STAGES.

Mississippi River system—Des Moines River, Des Moines, Iowa—Continued.

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	3.7	4.3	7.4	5.2	3.6	2.9			
2				3.6	4.3	6.7	5.1	3.6	2.9			
3				3.4	4.3	6.5	4.9	3.6	2.9			
4				3.5	4.3	6.2	4.9	3.6	2.9			
5				3.5	4.3	6.0	4.5	3.9	2.9			
6				3.5	4.2	5.2	4.5	3.9	2.9			
7				3.6	4.1	4.8	4.4	3.9	2.9			
8				3.7	4.0	4.8	4.3	3.9	2.8			
9				6.3	4.0	5.2	4.3	3.9	2.8			
10				9.2	4.0	5.2	4.3	3.9	2.8			
11	2.1		3.1	9.8	4.0	5.2	4.2	3.8	2.8			
12	2.1		3.1	9.7	4.0	5.4	4.1	3.8	2.7			
13	2.1		3.3	9.2	3.9	5.8	4.1	3.7	2.7			
14	Frozen.		3.3	8.9	3.9	6.2	4.0	3.6	2.7			
15			3.8	8.3	5.4	6.8	3.9	3.6	2.7			
16	2.1		4.3	8.2	5.2	8.2	3.9	3.6	2.6			
17			3.8	7.7	4.5	9.2	3.8	3.6				
18			4.1	7.3	4.2	9.0	3.8	3.6				
19			3.7	7.0	4.0	8.1	3.8	3.6				
20	2.2		4.3	6.5	4.0	8.8	3.8	3.6				
21	2.5		3.6	6.2	4.3	8.8	3.8	3.5				
22	2.6		3.8	6.0	4.1	8.8	3.8	3.5				
23	2.8		3.4	6.0	4.1	8.3	3.8	3.5				
24	Frozen.		3.3	5.3	4.0	8.0	3.8	3.4				
25			3.3	5.1	3.9	7.6	3.8	3.4				
26			3.9	4.8	3.8	7.0	3.8	3.4				
27			4.0	4.5	3.8	6.5	3.7	3.4				
28			3.7	4.5	3.8	6.2	3.7	3.2				
29			3.7	4.3	7.0	5.6	3.7	3.2				
30			3.7	4.3	7.0	5.3	3.6	3.0				
31			3.9		7.4		3.6	2.9				

¹10.0 feet at 6 p. m.

DAILY RIVER STAGES.

175

Mississippi River system—Illinois River, Peoria, Ill.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.7	8.7	11.2	8.4	7.9	10.1	5.7	9.6	6.7	5.9	5.9	7.5
2	14.4	8.8	11.5	8.3	7.8	10.0	5.6	9.7	6.6	6.2	5.9	7.4
3	14.1	8.9	11.8	8.2	7.6	9.8	5.5	9.5	6.4	6.5	5.9	7.4
4	13.8	9.0	11.9	8.2	7.5	9.5	5.4	9.3	6.4	6.5	5.9	7.3
5	13.5	9.1	11.7	8.2	7.4	9.4	5.3	9.1	6.4	6.8	6.1	7.2
6	13.2	9.2	11.4	8.2	7.3	9.2	5.1	8.7	6.2	7.1	6.2	7.1
7	12.9	9.3	11.4	8.0	7.2	9.0	5.0	8.9	5.9	8.0	6.3	7.0
8	12.6	9.6	11.3	7.8	7.0	8.8	4.9	8.6	5.7	8.7	6.4	7.1
9	12.4	9.9	11.0	7.6	6.8	8.6	4.5	8.5	5.5	8.9	6.5	7.2
10	12.1	10.2	10.9	7.5	6.6	8.4	4.5	8.4	5.4	9.0	6.6	7.0
11	11.8	10.1	10.8	7.4	6.3	8.2	4.3	8.4	5.3	8.8	6.6	6.8
12	11.6	10.0	10.8	7.4	6.1	8.0	4.1	8.3	5.5	8.6	6.9	6.8
13	11.3	9.9	10.8	7.3	5.9	7.8	3.9	8.2	5.5	8.4	7.1	6.9
14	11.1	9.8	10.6	7.1	5.7	7.8	3.8	8.0	5.5	8.1	7.5	6.7
15	10.9	9.8	10.4	7.0	5.5	7.8	3.8	7.8	5.5	7.8	7.7	6.6
16	10.8	9.6	10.6	6.8	5.3	7.7	3.7	7.6	5.6	7.8	7.8	6.5
17	10.5	9.3	10.3	6.8	5.3	7.7	3.6	7.7	5.8	7.6	7.8	6.4
18	10.2	9.0	10.0	6.8	5.4	7.6	3.6	7.6	5.9	6.0	7.9	6.5
19	9.9	8.7	9.8	6.8	5.6	7.4	3.6	7.6	5.9	6.5	8.1	6.5
20	9.5	8.5	9.7	6.8	6.5	7.2	4.2	7.6	5.9	6.7	8.1	6.6
21	9.2	8.3	9.5	6.9	7.0	7.0	4.4	7.6	6.2	6.7	8.0	6.4
22	8.9	8.0	9.4	6.8	7.3	6.8	4.5	7.4	6.3	6.7	7.8	6.3
23	8.7	7.8	9.2	6.6	8.0	6.7	4.8	7.4	6.1	6.7	7.7	6.2
24	8.6	8.2	9.0	6.8	8.8	6.5	5.1	7.2	5.8	6.7	7.6	6.0
25	8.4	8.5	9.0	7.1	8.5	6.4	5.4	7.2	5.7	6.6	7.5	5.8
26	8.2	9.0	8.8	7.4	8.5	6.3	5.9	7.1	5.7	6.4	7.4	5.7
27	8.1	10.0	8.7	7.6	8.8	6.2	6.5	7.1	5.7	6.3	7.5	5.5
28	8.0	10.6	8.7	7.7	9.1	6.0	6.9	7.0	5.7	6.2	7.5	5.4
29	8.3	10.9	8.6	7.8	9.4	5.8	8.0	6.9	5.7	6.1	7.6	5.5
30	8.5	-----	8.5	7.9	10.1	5.8	9.0	6.9	5.6	6.0	7.6	5.4
31	8.5	-----	8.5	-----	10.2	-----	9.4	6.9	-----	5.9	-----	5.4

1897.

1	5.5	12.4	13.2	17.3	11.5	6.7	9.1	4.7	3.9	3.7	3.8	4.5
2	5.6	12.1	13.0	17.0	11.3	6.4	8.9	4.6	3.9	3.7	3.8	4.4
3	6.4	12.1	12.8	16.8	11.2	6.2	8.6	4.5	3.9	3.7	3.8	4.3
4	7.4	12.0	12.7	16.4	11.2	6.0	8.3	4.4	3.9	3.7	3.8	4.2
5	10.0	11.8	12.6	16.0	11.0	5.9	8.0	4.3	3.9	3.7	3.8	4.2
6	11.7	11.7	12.7	15.8	10.9	5.8	7.9	4.3	3.9	3.7	3.9	4.3
7	13.2	11.6	12.7	15.5	10.9	5.8	8.0	4.2	3.9	3.7	3.9	4.3
8	14.3	11.4	12.8	15.2	10.8	5.7	7.9	4.1	3.9	3.7	4.0	4.3
9	14.8	11.3	13.1	14.9	10.5	5.6	7.6	4.1	3.9	3.7	4.1	4.3
10	14.9	11.1	13.3	14.6	10.3	5.5	7.2	4.0	3.9	3.7	4.1	4.3
11	14.9	11.0	14.0	14.3	10.0	5.4	6.9	4.0	3.9	3.7	4.1	4.3
12	14.7	10.9	14.4	14.0	10.0	5.3	6.8	4.0	3.9	3.7	4.1	4.3
13	14.5	10.8	15.0	13.5	9.8	5.3	6.5	3.9	3.9	3.7	4.1	4.3
14	14.4	10.8	15.6	13.0	9.6	5.0	6.1	3.9	3.9	3.7	4.1	4.3
15	14.1	10.8	16.0	13.3	9.5	5.0	5.9	3.8	3.9	3.7	4.2	4.3
16	13.9	10.7	16.2	13.0	9.4	5.3	5.8	3.8	3.9	3.8	4.3	4.3
17	13.6	10.6	16.1	12.9	9.2	5.5	5.8	3.9	3.9	3.8	4.3	4.2
18	13.6	10.8	16.2	12.7	9.3	5.8	5.7	3.8	3.9	3.8	4.3	4.2
19	13.8	11.0	16.3	12.5	9.0	6.0	5.7	3.8	3.9	3.7	4.3	4.2
20	14.0	11.3	16.7	12.3	8.7	6.2	5.7	3.8	3.9	3.8	4.3	4.2
21	14.2	11.6	17.0	12.0	8.4	6.5	5.7	3.8	3.9	3.8	4.3	4.2
22	14.2	11.9	17.8	11.6	8.1	6.8	5.8	3.8	3.9	3.8	4.4	4.2
23	14.0	12.6	18.2	11.6	7.9	7.3	5.9	3.8	3.9	3.8	4.4	4.2
24	13.7	13.3	18.3	11.6	7.8	7.9	5.9	3.7	3.9	3.8	4.4	4.2
25	13.4	13.7	18.3	11.5	7.5	8.8	5.8	3.8	3.9	3.8	4.6	4.2
26	13.4	13.8	18.3	11.3	7.4	9.3	5.7	3.8	3.8	3.8	4.8	4.2
27	13.2	13.6	18.3	11.3	7.3	9.5	5.5	3.8	3.8	3.8	4.9	4.1
28	13.0	13.4	18.2	11.2	7.2	9.6	5.3	3.8	3.8	3.8	4.8	4.1
29	12.8	-----	18.0	11.4	7.1	9.5	5.1	3.8	3.7	3.8	4.7	4.1
30	12.6	-----	17.7	11.5	7.0	9.4	4.9	3.9	3.7	3.8	4.6	4.1
31	12.4	-----	17.5	-----	6.9	-----	4.9	3.9	-----	3.8	-----	4.1

DAILY RIVER STAGES.

Mississippi River system—Illinois River, Peoria, Ill.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.1	7.8	12.5	19.2	10.8	13.5	9.1	4.1	4.6	5.3	7.9	8.4
2	4.1	7.9	12.4	19.0	10.6	13.2	8.9	4.1	4.5	5.2	7.8	8.3
3	4.1	7.8	12.5	18.7	10.5	12.9	8.8	4.1	4.5	5.1	7.7	8.2
4	4.0	7.7	12.3	18.3	10.3	12.6	8.6	4.1	4.4	5.0	7.6	8.1
5	4.0	7.6	12.1	18.0	10.2	12.3	8.4	4.2	4.5	5.0	7.4	8.0
6	4.0	7.4	12.0	17.3	10.0	12.1	8.1	4.2	5.0	5.0	7.3	7.7
7	4.0	7.2	11.9	16.8	9.8	11.8	7.5	4.2	5.4	5.0	7.2	7.5
8	4.0	7.0	11.7	16.3	9.7	11.5	7.3	4.4	5.5	5.0	7.1	7.4
9	4.1	6.9	11.6	15.9	9.6	11.2	7.0	4.3	5.6	4.9	7.1	7.1
10	4.0	6.9	12.0	15.6	9.5	11.1	6.7	4.3	5.5	4.8	7.2	7.2
11	4.0	7.5	12.2	15.1	9.4	11.1	6.3	4.3	5.4	4.9	7.2	7.2
12	4.3	8.4	13.0	14.8	9.2	11.0	5.9	4.0	5.3	4.9	7.2	7.1
13	4.6	9.2	13.7	14.5	9.0	11.0	5.6	4.2	5.1	4.9	7.4	7.1
14	5.0	10.0	14.3	14.3	8.9	11.1	5.3	4.2	5.3	4.9	7.6	7.0
15	5.2	10.7	14.8	14.0	8.8	11.1	5.0	4.1	5.5	4.9	8.3	6.9
16	5.3	11.4	15.2	13.8	9.0	11.1	4.7	4.2	5.4	4.9	9.0	6.8
17	5.2	11.9	15.6	13.6	9.2	11.0	4.3	4.5	5.4	4.7	9.4	6.5
18	5.2	12.3	15.6	13.3	9.4	10.8	4.0	5.6	5.3	4.8	9.7	6.2
19	5.1	12.6	15.8	13.1	9.7	10.6	3.9	5.7	5.3	5.0	9.9	6.0
20	5.4	12.8	16.1	12.8	10.6	10.3	3.9	5.6	5.2	5.1	9.9	5.9
21	5.8	13.0	16.4	12.6	11.8	10.0	3.9	5.6	5.1	5.2	9.9	5.9
22	6.3	13.2	17.0	12.4	12.5	9.7	3.9	5.5	5.0	5.3	9.7	6.0
23	6.8	13.2	17.4	12.2	13.0	9.5	3.8	5.5	5.3	5.4	10.0	6.3
24	7.2	13.2	17.3	12.0	13.6	9.4	3.5	5.5	5.6	5.6	9.9	6.6
25	7.3	13.0	17.2	11.8	14.0	9.0	3.7	5.4	5.8	5.7	9.6	6.8
26	7.3	12.8	17.0	11.7	14.2	8.8	3.6	5.3	5.8	6.5	9.3	6.8
27	7.4	12.7	17.2	11.5	14.1	8.9	3.6	5.2	5.7	6.8	9.1	6.8
28	7.5	12.6	17.6	11.2	14.0	8.9	3.8	5.0	5.6	7.1	8.8	6.9
29	7.5	-----	18.3	11.0	14.0	9.1	3.8	5.0	5.6	7.6	8.6	7.0
30	7.6	-----	19.0	10.9	13.9	9.1	4.1	4.9	5.4	7.8	8.5	7.1
31	7.7	-----	19.3	-----	13.8	-----	4.1	4.8	-----	8.0	-----	7.2

1899.

1	7.5	8.3	11.4	13.6	8.7	7.5	3.9	4.3	3.7	4.0	4.6	4.7
2	7.7	8.1	12.2	13.3	8.5	7.7	3.8	4.4	3.7	4.0	4.6	4.6
3	7.8	8.0	12.9	13.0	8.3	8.1	3.8	4.3	3.7	4.0	4.5	4.7
4	7.8	7.8	13.7	12.8	8.0	8.2	4.0	4.3	3.8	4.0	4.4	4.7
5	7.9	7.6	14.2	12.6	7.9	8.4	4.2	4.3	3.7	4.0	4.5	4.5
6	8.2	7.4	14.5	12.6	7.7	8.5	4.3	4.3	3.8	4.0	4.5	4.6
7	8.3	7.2	14.5	12.5	7.5	8.5	4.4	4.2	3.8	4.0	4.5	4.5
8	8.5	7.0	14.5	12.5	7.4	8.5	4.6	4.0	4.0	4.0	4.5	4.5
9	8.7	6.8	14.3	12.5	7.2	8.4	4.5	3.9	3.9	4.0	4.6	4.5
10	8.9	6.8	14.3	12.4	7.0	8.2	4.5	3.9	3.9	4.0	4.6	4.6
11	9.0	6.7	14.1	12.2	6.8	8.1	4.5	4.0	3.9	4.0	4.7	4.7
12	8.9	6.7	13.9	12.0	6.8	7.8	4.5	4.0	3.9	4.2	4.7	4.8
13	8.8	6.5	14.1	12.0	6.8	7.5	4.5	3.9	3.9	4.2	4.7	5.1
14	8.8	6.2	14.2	11.9	6.7	7.2	4.5	3.8	3.9	4.2	4.8	5.2
15	8.6	5.9	14.2	11.8	6.7	7.2	4.4	3.7	3.8	4.3	4.8	5.2
16	8.5	5.8	14.2	11.8	6.7	7.0	4.7	3.7	3.8	4.2	4.9	5.3
17	8.6	5.6	14.2	11.5	7.0	6.8	5.5	3.6	3.9	4.4	4.9	5.4
18	8.7	5.4	14.3	11.3	7.4	6.4	5.8	3.6	4.3	4.3	5.0	5.4
19	9.0	5.3	14.5	11.2	7.7	6.3	6.0	3.5	4.3	4.3	5.1	5.5
20	9.1	5.3	14.8	11.0	7.9	6.1	6.2	3.5	4.2	4.3	5.0	5.6
21	9.2	5.3	15.0	10.9	8.0	6.0	6.2	3.5	4.2	4.2	5.0	5.7
22	9.3	5.6	15.1	10.8	8.1	5.7	6.1	3.4	4.1	4.2	5.0	5.9
23	9.3	5.9	14.9	10.5	8.0	5.4	5.9	3.4	4.2	4.3	5.0	6.1
24	9.2	6.2	14.8	10.3	7.9	5.3	5.7	3.4	4.2	4.3	5.0	6.3
25	9.0	6.8	14.5	10.0	7.7	5.1	5.5	3.5	4.2	4.3	4.9	6.2
26	9.0	8.5	14.4	9.9	7.5	4.9	5.3	3.5	4.1	4.3	4.8	6.6
27	9.0	9.9	14.3	9.6	7.3	4.7	5.1	3.4	4.1	4.5	4.8	6.5
28	8.9	10.6	14.1	9.4	7.3	4.5	4.9	3.4	4.1	4.6	4.7	6.4
29	8.8	-----	13.8	9.3	7.2	4.4	4.7	3.4	3.9	4.5	4.7	6.2
30	8.7	-----	13.8	9.0	7.2	4.1	4.6	3.5	3.9	4.5	4.8	6.0
31	8.6	-----	13.7	-----	7.3	-----	4.4	3.6	-----	4.6	-----	5.8

DAILY RIVER STAGES.

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*Mississippi River system—Illinois River, Beardstown, Ill.***1898.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			12.0	19.9	12.3	15.0						
2			12.0	19.6	12.3	14.9						
3			12.0	19.5	12.3	14.8						
4			11.9	19.4	12.2	14.6						
5			11.9	19.1	12.1	14.4						
6			11.8	18.8	12.0	14.1						
7			11.7	18.5	11.9	13.9						
8			11.6	18.1	11.7	13.7						
9			11.5	17.8	11.6	13.4						
10			11.4	17.4	11.4	13.3						
11			11.4	17.0	11.3	13.1						
12			11.6	16.6	11.2	13.1						
13			11.8	16.3	11.1	13.0						
14			11.9	16.0	10.8	12.9						
15			12.0	15.8	11.1	12.8						
16			12.0	15.5	11.3	12.7						
17			12.4	15.1	11.4	12.7						
18			12.4	14.8	11.5	12.6						
19			12.7	14.5	11.7	12.4						
20			13.1	14.3	12.2	12.3						
21			13.4	14.0	12.5	12.2						
22			13.4	13.8	13.2	12.0						
23			14.1	13.6	13.8	11.9						
24			14.3	13.5	14.2	11.7						
25			14.6	13.3	14.5	11.5						
26			14.8	13.1	14.8	11.4						
27			15.6	12.9	15.1	11.3						
28			17.1	12.7	15.2	11.1						
29			18.6	12.6	15.3	10.9						
30			19.2	12.4	15.3	10.7						
31			19.3		15.1							

1899.

1			12.8	13.3	9.9	11.8						
2			13.1	13.1	9.7	11.7						
3			13.4	13.0	9.6	11.7						
4			14.2	12.8	9.6	11.7						
5			14.7	12.7	9.4	11.8						
6			15.1	12.6	9.3	11.8						
7			15.0	12.6	9.2	11.7						
8			14.9	12.6	9.5	11.6						
9			15.0	12.6	9.3	11.6						
10			15.1	12.4	9.2	11.5						
11			15.1	12.3	9.0	11.3						
12			15.1	12.2	8.9	11.0						
13			15.1	12.1	8.8	10.7						
14			15.1	12.0	8.6	10.4						
15			15.0	11.9	8.6	10.2						
16			14.9	11.8	8.8	10.3						
17			14.8	11.6	8.8	10.2						
18			14.7	11.5	8.7	9.8						
19			14.7	11.3	8.5	9.5						
20			14.8	11.2	8.5	9.3						
21			14.8	11.1	9.0	9.0						
22			14.8	11.0	9.8	8.8						
23			14.9	10.8	10.2	8.6						
24			14.9	10.8	10.4	8.3						
25			14.9	10.6	10.6	8.1						
26			14.9	10.5	10.7	7.9						
27			14.8	10.4	11.4	7.7						
28			14.7	10.2	11.4	7.5						
29			14.6	10.1	11.7	7.3						
30			14.6	10.1	11.9	7.2						
31			14.5		11.8							

DAILY RIVER STAGES.

Mississippi River system—Arkansas River, Wichita, Kans.

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1							0.8	1.4	1.9	1.1	0.8	0.8
2							0.2	1.3	1.8	1.1	0.8	0.8
3							-0.1	1.3	1.7	1.1	0.8	0.8
4							-0.4	1.2	1.7	1.1	0.8	0.8
5							-0.3	1.2	1.6	1.1	0.8	0.8
6							-0.3	1.2	1.4	1.0	0.8	0.8
7							0.3	1.2	1.4	1.0	0.8	0.8
8							0.5	1.3	1.3	1.0	0.8	0.8
9							0.3	1.2	1.3	1.0	0.8	0.8
10							-0.1	1.2	1.2	1.0	0.8	0.8
11							-0.4	1.2	1.2	1.0	0.8	0.8
12							-0.5	1.2	1.2	1.0	0.8	0.8
13							-0.6	1.2	1.1	1.0	0.8	1.5
14							-0.6	1.2	1.1	1.0	0.8	1.7
15							-0.5	1.2	1.2	0.9	0.8	1.6
16							1.5	1.3	1.3	0.9	0.8	1.6
17							1.5	2.0	1.3	0.9	0.8	1.4
18							1.5	2.4	1.3	0.9	0.8	1.5
19							1.4	2.5	1.3	0.9	0.8	1.5
20							1.4	2.4	1.7	0.9	0.8	1.4
21							1.4	2.0	1.7	0.9	0.7	1.4
22							1.4	1.9	1.4	0.9	0.7	1.4
23							1.3	1.8	1.2	0.9	0.8	1.3
24							1.3	1.8	1.2	0.9	0.8	1.2
25							1.3	1.8	1.2	0.9	0.9	1.2
26							1.3	1.8	1.2	0.9	0.9	1.0
27							1.4	1.7	1.2	0.9	0.9	1.0
28							1.5	1.7	1.2	0.9	0.9	0.9
29							1.5	1.7	1.1	0.8	0.9	0.8
30							1.4	2.0	1.1	0.8	0.9	0.8
31							1.4	1.9	0.8	0.8	0.9	1.0

1898.

1	1.0	1.4	1.8	1.3	3.8	3.7	3.4	2.2	1.2	1.4	1.1	1.4
2	0.9	1.4	1.8	1.2	5.3	3.8	3.1	2.0	1.1	1.3	1.1	1.4
3	0.8	1.4	1.8	1.3	5.3	3.9	3.1	1.8	1.1	1.3	1.1	1.4
4	0.7	1.5	1.7	1.2	4.7	3.5	3.0	1.7	1.1	1.3	1.1	1.4
5	0.6	1.6	1.7	1.2	4.1	3.1	2.9	1.6	1.2	1.3	1.1	1.4
6	0.6	1.9	1.6	1.2	3.3	2.7	2.8	1.6	1.2	1.2	1.0	1.4
7	0.6	1.9	1.6	1.2	3.0	2.3	2.7	1.9	1.2	1.2	1.1	1.4
8	0.6	1.9	1.5	1.2	2.8	2.6	2.6	2.5	1.1	1.2	1.1	1.4
9	0.6	2.0	1.5	1.2	2.7	4.2	2.5	2.6	1.1	1.2	1.1	1.4
10	0.6	2.2	1.5	1.2	2.6	5.6	2.4	2.6	1.1	1.2	1.1	1.4
11	0.6	2.5	1.6	1.2	2.5	5.3	2.3	2.5	1.2	1.3	1.1	1.4
12	1.5	2.7	1.7	1.2	2.4	4.6	2.1	2.4	1.2	1.3	1.1	1.4
13	1.7	2.7	1.6	1.3	2.3	4.2	2.1	2.1	1.2	1.2	1.1	1.4
14	1.5	2.6	1.6	1.3	2.2	4.4	2.0	1.9	1.1	1.2	1.1	1.4
15	1.6	2.6	1.6	1.2	2.3	5.0	2.0	1.8	1.1	1.2	1.2	1.4
16	1.5	2.5	1.4	1.2	2.4	4.9	1.9	1.8	1.1	1.2	1.2	1.4
17	1.6	2.4	1.4	1.2	2.3	4.7	1.8	1.9	1.1	1.3	1.3	1.3
18	1.7	2.3	1.5	1.8	2.1	4.4	1.8	1.7	1.1	1.3	1.3	1.8
19	1.6	2.2	1.5	1.8	2.2	4.3	1.7	1.6	1.1	1.2	1.4	2.6
20	1.5	2.1	1.5	1.7	2.4	4.1	2.1	1.6	1.2	1.2	1.4	2.8
21	1.2	2.0	1.5	1.7	3.3	3.9	2.2	1.6	1.2	1.2	1.3	2.5
22	0.9	1.9	1.4	2.4	3.1	3.8	2.0	1.5	1.3	1.1	1.4	2.5
23	0.8	1.8	1.3	2.2	3.1	3.9	1.8	1.4	1.4	1.1	1.4	2.4
24	0.8	1.8	1.4	1.9	2.5	3.9	1.7	1.3	1.6	1.1	1.4	2.4
25	1.0	1.8	1.4	1.7	2.1	3.8	1.6	1.3	1.7	1.1	1.5	2.4
26	1.2	1.8	1.4	1.7	2.2	3.5	1.8	1.3	1.9	1.1	1.5	2.3
27	1.2	1.8	1.4	1.7	2.3	3.4	1.8	1.2	1.7	1.1	1.5	2.2
28	1.2	1.8	1.3	1.7	2.3	3.8	1.7	1.2	1.6	1.1	1.5	2.1
29	1.4		1.3	1.7	2.3	3.7	1.6	1.2	1.6	1.0	1.4	2.0
30	1.5		1.3	2.7	2.2	3.6	1.9	1.2	1.5	1.0	1.4	1.8
31	1.4		1.3		2.3		1.9	1.2		1.0		1.7

DAILY RIVER STAGES.

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Mississippi River system—Arkansas River, Wichita, Kans.—Continued.

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.7	1.8	1.4	2.2	1.7	1.6	2.3	3.4	1.7	1.8	2.3	2.0
2	1.7	1.7	1.4	2.2	1.7	1.6	2.3	3.2	1.7	1.7	2.2	2.0
3	1.6	1.7	1.3	2.3	2.2	2.1	2.3	3.0	1.7	1.7	2.1	2.0
4	1.6	1.7	1.5	2.2	2.1	3.8	2.6	2.7	1.7	1.7	2.1	2.0
5	1.6	1.7	1.9	2.2	1.9	2.7	2.5	2.7	1.7	1.7	2.0	2.1
6	1.6	1.7	3.0	2.6	1.9	2.6	2.3	2.6	1.6	1.7	1.9	2.1
7	1.6	1.7	3.1	2.6	1.8	2.6	2.8	2.5	1.5	1.7	2.0	2.1
8	1.6	1.8	3.2	2.4	1.8	2.8	3.0	2.5	1.8	1.8	2.0	2.2
9	1.6	1.9	3.2	2.4	1.9	4.3	2.8	2.6	1.9	1.7	2.0	2.3
10	1.6	1.8	3.1	2.3	1.9	6.3	2.7	2.6	2.4	1.7	2.0	2.4
11	1.6	1.8	3.2	2.2	1.8	5.8	2.5	2.7	2.0	1.7	2.0	2.3
12	1.6	1.7	3.3	2.2	1.8	5.2	2.3	4.9	1.8	1.6	2.0	2.3
13	1.6	1.6	3.0	2.2	1.8	5.2	2.2	4.7	1.8	1.6	2.0	2.2
14	1.6	1.5	3.0	2.1	1.8	5.4	2.1	4.4	1.8	1.6	2.0	2.2
15	1.6	1.5	3.1	2.1	1.7	5.7	2.0	4.0	1.8	1.5	2.0	2.2
16	1.6	1.5	3.1	2.1	1.7	5.5	1.9	3.6	1.8	1.7	2.0	2.2
17	1.6	1.5	3.0	2.0	1.5	5.3	1.9	3.3	2.2	1.7	1.9	2.1
18	1.6	1.5	3.0	2.0	1.4	3.8	1.9	3.1	2.1	1.6	1.9	2.1
19	1.5	1.5	2.9	2.0	1.3	3.3	1.9	3.0	2.0	1.6	1.9	2.1
20	1.6	1.5	2.9	1.9	1.7	3.0	2.8	2.8	2.0	1.6	2.0	2.0
21	1.6	1.6	2.8	1.9	1.8	2.8	2.8	2.7	2.0	1.6	2.1	2.0
22	1.6	1.6	2.8	1.9	1.8	2.7	2.9	2.5	1.9	1.6	2.2	1.9
23	1.6	1.7	2.7	1.8	2.0	2.9	3.3	2.4	1.9	1.6	2.2	2.0
24	1.8	1.6	2.7	1.8	2.6	2.8	5.5	2.3	1.9	1.6	2.2	2.0
25	1.8	1.6	2.6	1.8	2.2	2.8	4.9	2.2	1.9	2.1	2.1	2.1
26	1.9	1.5	2.6	1.9	2.0	2.7	4.7	2.1	1.9	2.8	2.6	2.1
27	1.8	1.5	2.5	1.9	1.9	2.7	4.6	2.0	1.8	3.1	2.6	2.1
28	1.8	1.4	2.3	1.8	1.8	2.6	4.2	1.9	1.8	3.0	2.6	2.1
29	1.8	-----	2.4	1.8	1.7	2.5	3.7	1.8	1.8	2.4	2.6	2.1
30	1.8	-----	2.3	1.7	1.6	2.5	3.8	1.7	1.8	2.4	2.6	2.1
31	1.8	-----	2.2	-----	1.6	-----	3.5	1.6	-----	2.3	-----	2.0

DAILY RIVER STAGES.

Mississippi River system—Arkansas River, Webbers Falls, Ind. T.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1								7.9	3.7	3.1	2.5	3.4
2								12.7	3.5	2.8	2.4	3.2
3								14.5	3.3	2.7	2.4	3.0
4								12.7	3.1	2.5	2.2	3.0
5								12.0	2.8	2.4	2.2	2.8
6								9.8	2.7	2.3	2.0	2.8
7								7.7	2.6	2.3	1.9	2.7
8								7.7	2.6	2.2	1.9	2.6
9								10.3	2.6	2.2	1.9	2.6
10								10.5	2.5	2.1	1.8	2.5
11								11.0	2.7	6.4	1.8	2.5
12								11.5	3.7	8.4	1.8	2.4
13								9.7	3.6	6.0	1.9	2.4
14							4.8	8.5	6.9	4.3	1.9	2.3
15							4.5	7.4	9.9	4.0	1.9	2.3
16							4.3	6.7	8.7	3.6	1.8	2.2
17							4.3	6.0	8.2	3.3	1.7	2.2
18							4.3	5.6	8.4	2.9	1.7	2.4
19							4.1	5.2	8.0	2.7	1.6	3.9
20							4.0	5.0	7.3	2.7	1.6	9.3
21							4.0	8.2	6.7	2.8	1.9	11.8
22							5.8	6.5	6.1	2.9	4.9	11.7
23							11.5	5.4	5.6	2.9	5.4	11.1
24							11.0	5.0	4.9	3.9	5.0	10.3
25							8.8	4.6	4.5	3.7	6.0	9.3
26							6.8	4.3	4.2	3.3	5.3	8.0
27							6.1	4.8	3.9	2.9	5.1	6.8
28							5.6	5.0	3.7	2.7	4.5	6.1
29							5.8	4.6	3.4	2.6	4.1	5.5
30							5.2	4.5	3.2	2.6	3.8	5.1
31							5.0	4.0		2.5		4.8

1899.

1	4.4	2.5	9.5	3.0	6.8	6.8	4.7	4.8	1.8	1.4	2.3	2.6
2	4.2	2.4	8.0	3.3	6.1	8.4	4.5	4.8	1.7	1.4	2.1	2.5
3	3.9	2.3	6.3	3.5	5.6	7.4	4.4	4.7	1.6	1.4	2.0	2.4
4	3.7	3.3	4.5	3.5	8.6	6.5	4.2	4.3	1.6	1.4	1.8	2.3
5	3.5	1.8	4.5	3.4	8.5	8.2	4.2	4.2	1.6	1.4	1.8	2.2
6	3.2	1.9	4.2	3.3	13.1	7.0	4.4	3.8	1.5	1.4	1.8	2.2
7	3.2	1.9	3.9	3.0	19.8	6.9	4.2	3.6	1.5	1.4	1.8	2.1
8	3.2	3.4	3.8	3.0	24.8	8.7	9.7	3.3	1.5	1.4	1.8	2.1
9	3.4	2.4	3.6	3.1	23.5	11.1	10.9	2.9	1.5	1.4	1.7	2.1
10	3.3	2.3	3.5	3.0	20.2	11.9	11.3	2.8	1.5	1.4	1.6	2.1
11	3.5	2.3	3.3	2.9	15.7	10.8	11.6	2.6	1.5	1.4	1.7	2.1
12	3.3	2.2	3.2	3.0	17.0	10.6	12.7	2.5	1.4	1.4	1.5	2.1
13	3.3	2.9	3.4	3.0	16.1	14.0	12.7	2.5	1.4	1.3	1.4	2.0
14	3.6	Frozen.	3.1	2.9	15.0	15.9	11.7	2.4	1.4	1.3	1.4	2.1
15	4.4	Frozen.	3.9	2.8	13.6	15.6	9.7	2.8	1.4	1.3	1.4	2.1
16	4.6	Frozen.	5.8	2.8	12.0	14.4	7.9	2.9	1.4	1.4	1.4	2.0
17	4.2	2.4	6.0	6.7	9.8	12.1	5.7	4.4	1.4	1.4	1.4	2.1
18	4.0	2.4	5.6	5.2	8.0	10.5	5.7	5.1	1.4	1.4	1.5	2.0
19	3.9	2.1	5.0	4.8	7.1	9.8	6.6	4.8	1.4	1.3	1.4	2.1
20	3.8	2.1	4.6	5.9	6.9	9.4	6.7	4.3	1.4	1.3	2.5	2.0
21	3.5	2.2	5.5	7.1	6.6	8.3	9.8	3.8	1.4	1.3	2.3	2.0
22	3.3	2.3	5.0	10.8	8.0	7.5	10.5	3.0	1.4	1.3	2.8	2.1
23	3.2	2.1	5.5	17.5	10.4	7.0	10.8	2.8	1.4	1.3	2.9	2.2
24	3.1	2.0	4.9	18.1	10.6	6.3	12.1	2.4	1.4	1.3	2.8	2.5
25		2.9	4.3	16.4	11.2	5.8	10.5	2.3	1.4	1.3	3.7	2.5
26			4.0	14.1	11.2	5.4	9.0	2.3	1.4	1.4	4.5	2.4
27	2.8	8.6	3.6	12.5	10.4	5.1	7.4	2.2	1.4	1.4	4.3	2.4
28	2.8	10.5	3.3	11.6	10.4	5.0	6.3	2.1	1.4	1.5	3.3	2.4
29	2.6		3.2	9.5	9.6	5.0	5.5	2.0	1.4	1.6	2.0	2.4
30	2.6		3.2	7.5	8.4	5.0	5.1	1.9	1.4	2.1	2.7	2.3
31	2.5		3.0		7.4		5.1	1.8		2.4		2.4

DAILY RIVER STAGES.

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Mississippi River system—Arkansas River, Fort Smith, Ark.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.9	5.3	7.0	7.6	8.4	12.5	10.6	5.3	1.8	1.6	4.4	7.6
2	14.7	5.4	6.6	6.8	7.5	15.0	10.0	4.9	1.7	1.5	4.9	7.6
3	13.6	7.0	5.4	5.8	6.9	16.0	9.0	4.6	1.7	1.5	8.2	7.0
4	12.2	7.9	5.0	4.9	5.9	13.4	7.8	4.2	1.7	2.4	6.5	6.0
5	9.2	8.0	4.8	4.3	5.0	10.3	6.6	4.1	1.6	2.3	5.8	5.4
6	8.0	7.4	5.2	4.0	4.5	8.4	6.1	3.8	1.6	2.1	4.5	4.9
7	7.4	6.7	5.2	4.0	4.2	7.0	6.0	3.6	1.5	2.0	4.1	4.3
8	7.4	6.4	4.9	4.0	5.0	6.5	5.0	3.6	1.5	2.0	3.8	4.0
9	7.5	6.2	4.7	3.8	4.9	6.2	4.7	3.5	1.4	1.7	3.7	3.8
10	7.3	6.0	4.5	3.8	5.0	6.4	4.4	3.1	1.4	1.6	3.4	3.7
11	7.2	5.7	4.0	3.7	4.9	6.5	4.2	2.9	1.3	1.5	3.2	3.5
12	6.7	5.7	4.4	3.7	4.0	7.9	4.0	2.8	1.3	1.4	2.9	3.4
13	6.2	5.8	4.1	3.6	3.7	9.0	4.0	2.6	1.3	1.3	2.8	3.1
14	5.7	6.7	4.0	4.0	3.6	8.0	4.9	2.5	1.3	1.3	2.6	3.0
15	5.4	6.9	4.3	5.6	3.4	6.7	4.3	2.4	1.5	1.3	2.5	3.0
16	5.4	6.5	4.4	5.3	3.3	5.3	3.8	2.4	1.4	1.2	2.4	2.9
17	5.5	6.2	5.7	4.9	3.3	5.0	3.7	2.3	1.3	1.2	2.2	2.9
18	5.4	6.2	5.8	4.2	3.2	4.6	3.4	2.1	1.3	1.1	2.2	2.8
19	5.4	6.2	5.7	3.9	15.3	4.5	3.3	2.1	1.2	1.1	2.1	2.8
20	5.3	5.9	5.7	4.6	15.4	4.2	3.2	2.0	1.2	1.1	2.0	2.7
21	5.3	5.3	5.4	6.4	13.3	4.0	3.0	2.0	2.5	1.1	2.0	2.6
22	5.4	5.0	4.9	5.8	12.4	3.9	2.9	1.8	1.6	1.0	1.9	2.6
23	6.3	4.8	4.7	5.2	17.0	3.8	2.9	1.8	1.5	1.0	1.8	2.6
24	6.3	4.6	5.0	6.1	17.8	3.7	8.9	1.7	1.5	1.2	1.8	2.5
25	5.9	4.5	5.8	6.0	16.0	3.6	14.1	1.6	1.4	3.2	1.8	2.5
26	5.7	4.4	7.9	5.4	14.8	4.3	14.2	2.6	1.4	2.8	2.0	2.5
27	5.4	4.4	8.7	4.9	13.8	5.1	12.8	2.5	1.6	2.5	2.5	2.5
28	5.4	4.2	7.5	4.7	13.0	6.2	10.3	2.2	1.8	2.4	6.4	2.4
29	5.4	6.5	6.7	7.9	13.3	7.9	8.3	2.0	1.7	2.6	8.6	2.3
30	5.3	-----	6.2	8.7	14.5	9.4	6.6	1.9	1.7	2.5	8.8	2.3
31	5.3	-----	5.8	-----	13.5	-----	5.9	1.8	-----	3.0	-----	2.2

1897.

1	2.2	3.5	5.4	9.9	17.3	6.2	3.8	2.8	2.4	1.1	0.6	0.7
2	3.6	3.5	4.9	10.3	16.8	6.4	3.8	2.6	2.3	1.0	0.7	0.7
3	9.3	3.5	4.6	9.7	15.6	6.2	3.8	2.3	2.0	1.0	0.7	0.7
4	14.6	3.6	4.5	8.8	14.2	8.9	3.5	2.1	1.8	1.0	0.7	0.7
5	18.6	3.6	4.4	8.9	13.3	9.6	3.3	2.1	1.6	1.0	0.8	0.7
6	17.7	3.5	7.1	8.7	12.2	9.0	3.3	2.0	1.4	1.0	0.8	0.7
7	16.3	4.4	13.2	7.4	10.6	8.3	3.3	1.9	1.4	1.0	0.8	0.6
8	11.3	6.8	15.2	6.7	8.7	7.6	3.2	2.0	1.4	1.0	0.8	0.6
9	9.0	8.8	15.1	9.0	7.9	7.4	3.0	3.5	1.4	0.9	0.8	0.6
10	7.7	10.1	12.7	12.8	8.3	6.8	3.0	8.9	1.4	0.9	0.7	0.7
11	6.8	9.3	10.8	11.4	8.8	6.0	5.0	7.3	1.7	1.0	0.7	0.9
12	6.2	7.7	9.4	10.7	12.6	5.7	4.9	5.8	1.8	1.0	0.7	1.9
13	5.9	7.3	9.1	8.9	14.5	5.4	4.1	4.2	1.6	0.9	0.7	1.2
14	5.8	8.5	8.8	7.5	13.4	5.8	4.1	3.6	1.6	0.9	0.7	1.1
15	5.3	8.8	7.9	7.0	11.7	5.8	3.9	3.0	1.5	0.9	0.8	1.0
16	5.6	7.9	7.2	6.6	10.7	6.0	3.5	3.0	1.4	0.8	0.8	1.0
17	5.8	7.3	7.0	6.4	10.6	10.8	3.1	3.0	1.6	0.8	0.9	1.4
18	5.8	6.8	10.9	6.0	10.4	9.8	2.8	2.9	1.5	0.8	0.9	2.5
19	5.8	6.4	16.0	5.7	9.9	8.2	3.1	2.9	1.5	0.8	0.9	2.1
20	5.8	6.0	17.0	5.1	9.4	6.2	3.5	4.1	1.5	0.8	0.9	2.3
21	5.8	5.9	15.8	4.9	8.6	5.9	3.3	4.0	1.4	0.8	0.9	1.8
22	5.9	5.9	15.0	4.6	8.0	5.5	3.8	3.8	1.3	0.7	0.9	1.8
23	5.9	5.6	13.6	4.3	7.4	5.0	4.2	3.5	1.3	0.7	0.7	1.9
24	6.4	9.9	11.1	4.2	6.9	4.6	4.2	2.9	1.2	0.7	0.8	1.7
25	6.6	9.8	9.3	4.2	6.7	4.5	4.0	2.7	1.2	0.7	0.8	1.7
26	6.8	7.8	8.0	15.3	6.4	4.4	3.9	2.7	1.1	0.7	0.8	1.7
27	6.6	6.6	7.1	13.6	6.1	4.3	3.5	2.6	1.1	0.6	0.8	1.9
28	5.3	6.0	6.5	12.5	5.6	4.6	3.5	3.0	1.1	0.6	0.8	2.2
29	Frozen.	-----	6.2	11.8	6.2	4.3	3.3	2.9	1.1	0.6	0.8	2.2
30	4.4	-----	6.2	17.4	7.5	4.0	3.3	2.8	1.1	0.6	0.8	2.1
31	3.8	-----	8.3	-----	6.5	-----	2.9	2.6	-----	0.6	-----	2.0

DAILY RIVER STAGES.

Mississippi River system—Arkansas River, Fort Smith, Ark.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.0	4.3	2.8	14.3	5.4	8.1	11.4	5.9	4.7	4.1	3.9	4.7
2	1.8	4.0	2.7	11.6	6.5	6.9	11.8	8.7	4.2	4.0	3.8	4.4
3	1.5	3.8	2.5	10.1	13.6	6.7	11.1	14.7	4.0	3.9	3.7	4.2
4	1.2	3.5	2.5	8.8	20.3	7.4	9.8	14.9	3.5	3.8	3.6	4.3
5	1.2	3.3	2.4	8.3	29.6	7.5	8.8	13.1	3.5	3.7	3.5	4.3
6	1.2	3.3	2.3	7.9	32.1	8.0	6.9	12.6	3.4	3.6	3.4	4.2
7	1.1	3.1	2.3	6.8	35.0	8.0	6.0	10.4	3.1	3.4	3.3	4.2
8	1.1	2.9	2.2	7.9	34.9	8.9	5.8	8.8	2.9	3.3	3.2	4.2
9	1.1	2.7	2.1	8.8	33.7	8.5	5.4	8.7	2.8	3.3	3.1	4.2
10	1.1	2.7	2.1	8.0	31.3	7.5	5.9	11.7	2.8	3.2	3.1	4.1
11	1.0	2.6	2.0	7.2	25.2	7.6	5.7	11.9	3.4	3.7	3.0	4.0
12	1.0	2.6	3.7	6.4	23.4	7.8	5.8	12.5	5.0	6.8	2.9	4.0
13	1.1	4.2	13.0	6.1	19.7	9.1	5.9	12.1	8.1	10.6	2.8	4.0
14	1.2	6.5	13.7	5.6	17.1	9.0	5.5	10.6	7.7	7.8	2.8	4.0
15	2.5	7.9	14.2	5.1	14.6	10.2	4.9	9.4	9.1	6.1	2.9	3.9
16	3.5	7.7	15.0	4.9	12.6	13.8	5.4	7.9	10.4	5.5	3.5	3.9
17	3.3	6.5	13.6	4.7	11.2	13.5	5.1	7.1	9.0	5.5	3.2	3.9
18	3.1	6.2	11.6	4.7	10.8	12.4	4.8	6.5	8.7	5.4	2.9	3.9
19	3.2	4.9	10.5	4.6	11.4	11.8	4.9	6.2	8.8	4.8	2.8	4.8
20	5.4	4.3	11.0	5.2	13.0	11.5	4.7	5.9	8.4	4.5	2.8	5.2
21	7.7	4.1	14.7	5.0	16.5	12.3	4.4	5.6	7.9	4.8	3.4	10.8
22	7.5	3.9	17.4	4.8	19.7	11.6	4.1	8.5	7.2	4.7	4.2	12.2
23	7.0	3.7	17.3	7.2	20.0	11.1	6.4	6.8	6.5	4.7	6.5	12.1
24	7.0	3.5	17.6	9.0	19.8	10.2	12.3	5.9	5.9	4.8	7.4	11.7
25	6.8	3.3	17.3	9.9	15.8	8.8	12.3	5.3	5.2	5.2	7.3	10.8
26	5.9	3.1	16.4	8.9	13.0	8.1	9.7	4.9	4.3	5.1	7.4	10.3
27	4.9	3.0	15.0	7.4	12.0	8.0	7.5	4.6	4.2	4.8	6.6	9.4
28	4.6	2.9	22.6	6.8	11.1	7.8	6.7	5.0	4.1	4.5	6.5	7.7
29	4.0	-----	21.1	6.3	9.8	8.8	6.1	5.5	4.2	4.2	5.8	6.8
30	4.4	-----	19.5	5.7	9.6	9.5	6.4	4.9	4.2	4.1	5.0	6.3
31	4.4	-----	17.4	-----	8.7	-----	6.0	4.9	-----	4.0	-----	6.0

1899.

1	5.8	4.3	11.5	4.0	8.5	9.3	6.1	7.0	3.0	2.5	3.9	5.4
2	5.5	4.0	10.7	4.2	7.5	8.2	6.0	6.7	3.0	2.4	4.1	5.2
3	5.0	3.8	9.0	4.2	6.9	10.1	5.8	6.6	2.8	2.4	3.7	4.7
4	4.8	3.7	7.7	4.4	6.5	9.5	5.7	6.5	2.7	2.1	3.5	4.5
5	5.0	3.6	6.2	4.4	8.8	8.4	5.5	6.3	2.7	2.0	3.4	4.2
6	5.1	3.5	5.9	4.3	10.0	8.8	5.4	5.9	2.5	1.7	3.2	3.8
7	5.2	3.3	5.3	4.2	20.3	8.0	5.4	5.7	2.8	1.7	2.9	3.6
8	5.4	3.2	5.0	4.1	25.3	10.0	5.5	5.5	2.8	1.5	2.7	3.4
9	5.4	3.1	4.8	4.0	26.4	12.7	10.2	5.2	2.7	1.5	2.8	3.4
10	5.8	3.0	4.6	3.9	24.4	13.3	11.8	5.0	2.5	1.4	2.8	3.7
11	6.4	Frozen.	4.5	4.1	20.4	13.7	11.5	4.8	2.4	1.4	2.6	4.0
12	7.0	-----	4.3	4.0	18.6	12.8	11.7	4.6	2.4	1.8	2.5	3.7
13	7.0	-----	4.3	4.0	19.2	12.6	12.7	4.5	2.2	1.8	2.5	3.4
14	6.9	-----	4.1	4.0	18.2	15.9	13.2	4.4	2.2	1.7	2.4	2.6
15	7.4	-----	4.2	3.9	16.8	16.3	11.4	4.3	2.1	1.7	2.4	2.3
16	8.2	-----	4.6	3.9	15.1	15.8	9.2	4.3	2.1	1.6	2.3	2.3
17	7.7	4.0	6.2	3.9	13.5	14.4	7.8	4.4	1.9	1.8	2.2	3.0
18	7.0	4.0	6.7	6.9	11.8	12.0	7.1	5.4	1.9	1.8	2.2	2.8
19	6.5	3.7	7.7	6.2	10.5	11.1	7.0	6.1	1.9	1.7	2.4	3.0
20	6.1	3.7	7.5	6.0	10.2	10.8	7.9	6.0	1.9	1.7	2.1	8.3
21	5.8	3.8	6.2	6.6	9.6	10.2	8.5	5.6	1.9	1.7	2.9	7.8
22	5.6	3.7	6.7	8.0	9.0	9.4	10.8	5.3	1.9	1.6	3.2	6.8
23	5.4	3.7	6.4	15.4	10.2	8.7	11.5	4.7	1.9	1.6	3.2	5.9
24	5.3	3.6	6.5	19.0	12.3	8.2	13.3	4.3	3.0	1.5	3.1	6.3
25	5.0	3.1	6.2	18.6	13.0	7.6	13.6	4.0	2.9	1.5	5.9	6.5
26	4.8	3.8	5.7	16.7	12.9	7.2	12.6	3.9	2.8	1.5	6.2	5.9
27	4.8	5.6	5.0	14.5	12.1	6.8	11.0	3.7	2.7	1.6	6.8	5.1
28	4.7	10.9	4.8	13.3	11.5	6.5	10.0	3.6	2.2	2.3	6.8	4.7
29	4.6	-----	4.7	12.1	11.4	6.4	8.8	3.5	2.0	2.4	5.8	4.4
30	4.5	-----	4.4	10.0	10.9	6.3	7.8	3.2	2.0	2.9	5.6	4.2
31	4.4	-----	4.2	-----	10.1	-----	7.2	3.1	-----	3.1	-----	4.0

¹19.2 at 4 p. m.

DAILY RIVER STAGES.

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*Mississippi River system—Arkansas River, Dardanelle, Ark.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.3	5.5	4.5	10.0	7.6	13.4	7.7	5.7	1.4	1.1	1.8	8.0
2	16.1	6.2	6.0	9.2	8.1	12.4	9.5	5.0	1.3	1.0	1.8	7.5
3	14.5	7.0	6.4	8.3	7.5	14.2	9.0	4.4	1.2	1.0	3.2	7.0
4	13.0	7.8	6.0	7.2	6.7	15.5	9.2	4.0	1.2	1.0	4.1	6.8
5	11.5	8.8	5.3	6.1	6.0	13.8	8.0	3.7	1.1	1.5	4.7	6.0
6	9.9	8.9	5.5	5.6	5.2	11.0	6.8	3.5	1.0	1.6	5.4	5.5
7	9.0	8.5	6.1	5.2	4.5	8.9	6.0	3.2	1.0	1.5	4.7	4.8
8	8.5	7.7	6.1	4.8	4.0	7.5	5.4	2.9	0.9	1.4	3.8	4.2
9	8.0	7.1	5.9	4.5	3.7	6.6	5.0	2.9	1.1	1.4	3.4	3.7
10	8.0	6.7	5.5	4.3	4.1	6.0	4.3	2.8	1.0	1.2	3.1	3.2
11	8.0	6.5	5.2	4.1	4.2	5.6	3.9	2.6	0.9	1.1	2.9	3.1
12	7.8	5.0	4.8	4.1	4.6	5.8	3.8	2.4	0.9	1.0	2.7	2.9
13	7.3	8.0	4.8	4.1	4.3	6.0	3.7	2.3	0.8	1.0	2.5	2.8
14	6.8	8.5	4.8	4.8	3.7	8.4	3.7	2.2	0.8	1.0	2.3	2.7
15	6.5	8.0	5.1	4.6	3.4	8.2	3.8	2.0	0.8	0.9	2.1	2.4
16	6.4	8.0	5.8	4.8	3.2	7.3	3.6	1.9	0.8	0.8	2.0	2.3
17	6.2	7.7	6.3	5.6	3.2	5.8	3.2	1.8	0.8	0.7	1.9	2.3
18	6.1	7.1	6.6	5.4	3.2	4.8	3.1	1.8	0.8	0.7	1.8	2.2
19	5.9	6.9	6.6	4.8	3.2	4.3	2.9	1.7	0.8	0.6	1.6	2.1
20	5.8	6.7	6.4	4.2	14.2	4.0	2.8	1.7	0.8	0.6	1.5	2.1
21	5.6	6.2	6.2	4.0	15.2	3.8	2.7	1.6	0.8	0.6	1.4	2.0
22	5.5	5.7	6.2	5.2	14.8	3.6	2.6	1.4	0.9	0.6	1.4	2.0
23	5.7	5.5	6.8	6.0	13.0	3.4	2.4	1.4	0.9	0.6	1.3	2.0
24	6.5	5.2	5.9	5.2	13.0	3.2	2.3	1.3	1.1	0.6	1.3	1.9
25	7.0	5.0	5.8	5.2	17.2	3.1	2.3	1.2	1.0	0.6	1.2	1.8
26	6.9	4.9	5.8	5.7	15.8	3.0	12.1	1.2	0.9	0.6	1.2	1.8
27	6.4	4.5	6.4	5.4	14.5	3.2	13.6	1.2	1.0	0.6	1.5	1.8
28	6.0	4.5	8.3	5.2	13.5	4.2	12.6	2.2	1.0	2.0	1.8	1.7
29	5.7	4.3	8.0	5.0	12.8	4.6	10.7	1.9	1.0	2.0	3.0	1.7
30	5.6		7.2	5.6	12.8	5.6	9.6	1.7	1.1	1.9	6.6	1.6
31	5.5		7.1		14.2		6.9	1.5		1.8		1.6

1897.

1	1.6	4.5	5.6	7.9	16.4	6.0	2.7	1.7	1.6	-0.1	-0.7	-0.6
2	1.6	3.8	5.0	9.7	16.5	5.3	2.4	1.4	1.3	-0.1	-0.7	-0.5
3	8.5	3.5	4.6	10.3	15.5	5.3	2.2	1.2	0.9	-0.1	-0.7	-0.5
4	11.5	3.7	4.5	10.2	14.9	5.5	2.2	1.0	0.7	-0.2	-0.6	-0.5
5	14.9	3.3	5.3	9.4	13.6	6.2	2.1	0.9	0.5	-0.3	-0.5	-0.6
6	17.4	3.5	7.0	9.1	12.7	8.8	2.0	0.9	0.4	-0.3	-0.5	-0.6
7	16.1	3.5	8.0	9.0	11.8	8.4	1.9	0.8	0.3	-0.3	-0.5	-0.6
8	14.0	3.7	12.4	8.2	10.7	7.8	1.8	0.8	0.3	-0.4	-0.5	-0.6
9	11.7	4.5	15.0	8.0	8.9	6.6	1.8	0.8	0.2	-0.4	-0.5	-0.6
10	9.5	5.6	14.9	9.0	7.8	6.5	1.6	1.9	0.2	-0.4	-0.5	-0.6
11	8.0	8.4	13.1	12.3	7.4	6.6	2.0	5.5	0.2	-0.4	-0.5	-0.6
12	7.0	8.7	11.1	11.8	7.7	5.9	2.9	7.6	0.3	-0.4	-0.5	-0.6
13	6.4	8.0	9.5	10.9	10.7	5.1	3.4	6.0	0.5	-0.4	-0.6	1.0
14	6.0	7.0	8.8	9.8	13.3	4.3	3.0	4.7	0.4	-0.4	-0.6	0.7
15	5.6	7.1	8.7	8.4	13.0	4.2	2.7	3.1	0.4	-0.4	-0.6	0.4
16	5.3	7.9	8.0	7.5	11.1	4.6	2.6	2.3	0.3	-0.4	-0.6	0.0
17	5.5	7.8	8.0	6.9	11.0	4.6	2.2	1.8	0.6	-0.5	-0.5	0.0
18	6.1	7.0	14.8	6.5	10.3	7.6	1.9	1.7	0.3	-0.5	-0.5	0.8
19	6.0	6.2	16.0	6.1	9.6	9.2	1.7	1.7	0.3	-0.6	-0.5	2.6
20	5.9	5.8	18.4	5.6	9.3	7.8	1.6	1.7	0.3	-0.6	-0.5	2.4
21	5.9	5.4	17.3	5.2	8.8	6.2	1.7	1.8	0.3	-0.6	-0.5	2.2
22	5.7	5.2	16.0	4.9	8.0	5.3	1.7	2.5	0.0	-0.6	-0.6	2.5
23	5.8	5.2	15.0	4.5	7.4	4.7	2.0	2.5	0.0	-0.6	-0.6	2.0
24	5.8	5.1	13.7	4.3	6.8	4.1	2.5	2.2	-0.1	-0.6	-0.5	1.7
25	5.8	5.4	12.0	4.2	6.1	4.0	2.8	2.1	-0.1	-0.6	-0.5	1.4
26	6.0	8.8	10.0	4.3	5.7	3.7	3.0	1.8	0.0	-0.6	-0.5	1.2
27	6.2	8.0	8.8	13.3	5.5	3.1	2.7	1.4	0.0	-0.6	-0.5	1.1
28	6.1	6.5	7.9	13.7	5.1	3.1	2.2	1.2	-0.1	-0.6	-0.5	1.1
29	5.5		7.2	13.3	4.7	3.0	2.0	1.8	-0.1	-0.7	-0.5	1.2
30	Frozen		6.8	11.7	4.7	3.0	1.9	1.6	-0.1	-0.7	-0.6	1.3
31			6.7		5.4		1.8	1.6		-0.7		1.2

Mississippi River system—Arkansas River, Dardanelle, Ark.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.2	3.5	1.7	16.7	6.5	9.0	9.6	6.3	4.3	4.0	3.3	5.5
2	1.1	3.4	1.7	14.2	7.6	8.4	10.7	6.0	4.2	3.6	3.2	5.2
3	1.0	3.2	1.5	11.8	10.1	7.8	11.8	6.7	3.9	3.5	3.1	4.5
4	0.9	2.9	1.5	10.6	13.5	7.5	11.4	13.8	3.6	3.3	2.9	4.2
5	0.6	2.6	1.5	9.6	23.1	7.6	10.5	15.0	3.5	3.1	2.7	4.0
6	0.6	2.3	1.2	8.9	25.6	8.8	9.6	13.4	3.2	4.1	2.5	3.8
7	0.5	2.1	1.0	8.4	26.7	8.8	8.3	12.5	3.1	3.6	2.3	3.4
8	0.4	2.1	0.9	7.8	28.3	9.1	6.1	11.0	3.0	3.2	2.2	3.4
9	0.4	1.9	0.9	7.0	29.2	10.0	6.1	13.8	2.8	3.0	2.4	3.2
10	0.3	1.7	0.8	9.3	29.3	9.5	7.0	10.8	2.7	2.8	2.3	3.2
11	0.3	1.6	0.8	9.2	28.8	8.8	6.6	11.3	2.7	2.9	2.2	3.2
12	0.2	1.5	0.3	8.5	27.0	8.5	6.2	11.8	2.6	4.3	2.2	3.2
13	0.3	1.5	17.2	7.5	23.1	9.5	6.0	12.0	4.6	5.2	2.2	3.0
14	0.4	1.5	15.5	6.8	19.6	10.2	5.9	12.2	8.5	8.0	2.1	2.9
15	1.5	2.5	14.4	6.3	17.2	9.8	5.8	11.0	8.4	8.7	2.0	2.8
16	3.5	5.5	14.8	5.8	15.4	10.4	5.4	9.8	9.0	7.8	2.0	2.7
17	3.9	6.8	15.0	5.4	13.7	13.9	4.9	8.6	10.5	7.9	2.0	2.6
18	3.8	6.5	13.8	5.0	12.7	14.0	5.3	7.6	9.5	8.0	2.1	2.8
19	3.1	5.1	12.2	5.0	12.0	13.0	5.1	7.2	9.0	6.9	2.0	3.2
20	3.1	4.1	11.7	5.3	11.9	12.3	4.7	6.2	8.5	6.6	1.9	4.2
21	3.4	3.8	10.6	5.6	14.0	12.0	5.0	5.9	8.6	5.8	1.9	4.7
22	6.4	3.3	15.2	5.6	18.1	12.3	4.6	5.4	9.6	4.9	3.5	7.8
23	7.2	3.0	16.9	5.9	19.3	12.3	4.5	6.4	8.4	4.8	5.8	11.8
24	6.9	2.7	16.6	7.8	19.5	11.5	4.3	7.2	7.8	4.5	5.5	11.9
25	7.0	2.4	17.0	9.3	19.0	10.8	9.7	6.5	7.0	4.4	7.1	11.5
26	6.4	2.2	16.8	10.0	16.4	9.5	12.0	6.0	6.4	4.3	6.8	11.0
27	5.6	2.0	15.7	9.7	14.6	8.6	10.2	5.0	6.0	4.5	7.2	9.8
28	4.8	1.9	21.6	8.6	13.0	9.6	7.3	4.9	5.8	4.3	6.9	8.7
29	4.2	-----	21.4	7.8	12.0	9.0	6.9	4.4	5.1	4.1	6.8	7.8
30	3.6	-----	19.9	7.1	10.0	9.0	6.5	4.6	4.1	3.8	6.0	7.2
31	3.5	-----	18.9	-----	9.8	-----	6.5	4.5	-----	3.5	-----	6.9

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.8	4.3	8.7	3.9	11.0	10.5	5.4	6.8	2.4	1.5	1.7	4.6
2	6.5	4.4	11.0	3.8	9.3	9.8	5.3	6.0	2.3	1.5	2.3	4.0
3	6.3	3.7	10.5	3.6	8.4	8.8	5.3	5.8	2.2	1.6	2.9	4.0
4	5.3	3.5	9.2	3.5	7.7	9.5	5.0	5.4	2.2	1.6	2.9	3.8
5	4.9	3.1	7.2	3.4	7.4	9.8	4.8	5.0	2.1	1.6	2.8	3.7
6	5.1	3.0	6.5	3.6	8.0	8.5	4.7	5.0	2.0	1.5	2.4	3.2
7	5.3	3.0	6.0	3.6	15.0	8.4	4.6	4.9	1.9	1.5	2.5	3.0
8	5.4	2.3	5.5	3.4	21.4	8.1	4.5	4.6	1.9	1.4	2.0	2.8
9	5.2	2.1	5.0	3.3	23.2	8.0	4.4	4.5	1.8	1.3	1.9	2.6
10	5.3	2.1	4.6	3.3	23.5	11.3	6.4	4.3	1.8	1.2	1.9	2.5
11	8.1	2.1	4.4	3.2	22.6	13.5	10.2	4.1	1.8	1.2	1.9	2.6
12	9.0	Frozen.	4.0	3.0	20.2	13.7	11.2	4.0	1.8	1.2	1.9	2.8
13	8.6	-----	3.9	3.0	18.9	13.0	11.5	3.8	1.7	1.1	1.8	2.8
14	9.5	-----	3.8	3.1	18.8	12.5	12.4	5.5	1.6	1.1	1.7	2.7
15	9.5	-----	3.6	3.2	18.0	15.3	12.5	5.1	1.6	1.0	1.7	2.5
16	8.8	3.0	3.5	3.3	16.9	16.4	11.8	3.0	1.5	1.0	1.5	2.4
17	8.6	3.0	3.4	3.2	16.0	15.8	10.0	3.0	1.5	1.1	1.5	2.4
18	8.5	2.7	4.1	3.2	15.3	15.0	8.0	3.0	1.5	1.1	1.5	2.4
19	8.0	2.9	7.8	3.5	13.5	12.9	6.5	3.2	1.5	1.1	1.5	3.5
20	7.3	3.0	8.2	6.0	12.0	11.6	5.9	4.3	1.5	1.0	2.1	5.0
21	6.4	2.9	7.9	6.0	10.5	10.8	7.0	5.0	1.4	1.0	2.4	5.9
22	6.0	2.7	7.2	7.2	10.0	10.0	7.6	4.8	1.9	1.0	2.8	7.8
23	5.5	2.6	6.5	9.6	10.1	9.3	9.7	4.5	2.0	1.0	4.4	7.4
24	5.5	2.5	6.5	15.5	10.6	8.2	11.0	4.1	1.8	1.0	7.0	6.8
25	5.5	2.5	5.5	19.2	12.0	7.3	13.0	3.1	1.8	1.0	6.0	6.2
26	5.4	3.5	5.5	18.2	13.0	6.8	13.8	3.1	1.9	0.9	4.8	6.0
27	5.0	4.6	5.5	16.2	13.0	5.8	12.5	3.0	1.9	0.9	4.5	5.9
28	4.7	4.8	5.4	14.7	12.2	5.8	11.6	2.8	1.7	1.0	4.0	5.2
29	4.6	-----	4.8	13.8	12.3	5.9	10.0	2.7	1.6	1.2	5.0	4.8
30	4.5	-----	4.4	12.6	11.6	5.7	8.5	2.6	1.5	1.3	4.9	4.4
31	4.5	-----	4.2	-----	11.3	-----	7.3	2.5	-----	1.4	-----	4.0

DAILY RIVER STAGES.

185

Mississippi River system—Arkansas River, Little Rock, Ark.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.3	10.2	7.4	11.0	8.5	15.4	6.5	9.0	3.6	3.0	3.6	6.3
2	21.2	10.7	7.3	11.5	9.4	15.0	7.9	7.8	3.6	3.0	3.7	8.9
3	18.9	10.7	7.3	14.5	10.0	14.1	9.9	7.0	3.5	2.9	3.7	9.2
4	17.4	11.3	8.1	13.8	9.9	15.5	10.6	6.4	3.5	2.9	3.7	8.4
5	16.0	12.1	8.1	12.6	9.4	16.8	10.4	6.0	3.5	2.8	5.6	8.3
6	14.4	12.3	8.1	11.3	8.6	15.5	9.8	5.7	3.4	2.8	5.9	7.9
7	12.7	12.2	8.3	10.2	8.0	13.0	8.7	5.5	3.3	2.8	6.4	7.1
8	12.0	11.8	8.4	9.3	7.4	11.0	7.9	5.3	3.2	2.9	6.7	6.5
9	11.6	11.2	8.5	8.8	6.8	9.7	7.2	5.1	3.2	3.3	6.0	6.3
10	11.4	10.4	8.5	8.2	6.5	8.6	7.0	5.0	3.1	3.3	5.5	6.0
11	11.3	10.0	8.4	8.1	6.2	7.9	6.5	4.9	3.1	3.3	5.3	5.9
12	11.2	9.5	8.2	7.7	6.5	7.3	6.2	4.9	3.1	3.2	5.0	5.5
13	10.6	10.0	7.8	8.3	6.6	7.4	5.9	4.8	3.0	3.2	4.9	5.3
14	10.0	11.8	7.5	8.4	6.8	7.5	5.8	4.6	3.0	3.0	4.5	5.0
15	9.8	13.0	7.4	8.9	6.5	8.0	5.6	4.4	2.9	2.9	4.3	4.8
16	9.4	12.7	7.6	8.8	6.3	9.5	5.7	4.2	2.9	2.8	4.0	4.7
17	9.5	12.1	9.0	8.3	6.0	9.0	5.6	4.2	2.8	2.8	3.9	4.6
18	9.3	11.5	10.2	8.5	5.8	8.0	5.5	4.1	2.8	2.8	3.7	4.6
19	9.2	10.8	10.5	8.5	5.9	7.0	5.2	4.2	2.8	2.7	3.6	4.3
20	8.9	10.3	10.7	8.0	6.0	6.4	5.0	4.2	2.8	2.7	3.5	4.1
21	8.7	9.9	10.6	7.6	11.9	6.5	5.0	4.2	2.8	2.7	3.3	4.0
22	8.7	9.4	10.1	7.2	16.4	6.0	4.8	4.1	2.9	2.6	3.2	3.9
23	8.7	8.9	10.0	7.6	15.8	5.8	4.7	4.0	2.9	2.8	3.2	3.9
24	8.8	8.6	9.6	8.7	15.0	5.7	4.6	4.0	2.9	2.9	3.2	3.8
25	9.7	8.2	9.5	8.6	18.0	5.4	4.6	3.9	3.1	2.9	3.1	3.8
26	10.4	8.1	9.4	8.0	18.8	5.3	4.5	3.7	3.0	2.7	3.1	3.7
27	10.0	7.8	9.1	8.0	17.8	5.2	10.4	3.6	3.1	2.7	3.2	3.6
28	9.7	7.7	9.0	8.3	16.3	5.4	14.3	3.5	3.1	2.8	3.9	3.6
29	9.1	7.6	10.1	8.3	15.1	5.6	13.8	4.0	3.1	2.9	4.6	3.6
30	8.8	-----	10.5	8.2	14.5	6.2	12.2	3.8	3.0	3.9	5.8	3.5
31	9.5	-----	10.0	-----	14.1	-----	10.4	3.6	-----	3.9	-----	3.5

1897.

1	3.5	6.4	8.7	9.9	13.3	7.0	5.2	4.5	3.9	2.0	1.3	1.2
2	3.4	6.1	7.8	10.4	17.5	7.8	5.0	4.2	3.8	1.9	1.2	1.2
3	6.0	5.8	7.0	11.6	17.8	7.7	4.8	4.0	3.6	1.9	1.1	1.2
4	10.2	5.6	6.7	12.6	17.4	7.5	4.7	3.8	3.4	1.8	1.1	1.2
5	15.3	5.7	6.6	12.7	16.4	7.0	4.6	3.8	3.4	1.7	1.1	1.2
6	18.4	5.5	8.3	12.0	15.3	7.8	4.4	3.8	3.0	1.7	1.1	1.2
7	19.4	5.7	10.3	11.3	14.3	9.8	4.3	3.7	2.8	1.7	1.1	1.2
8	18.2	5.9	11.6	11.1	13.4	10.0	4.2	3.5	2.8	1.6	1.1	1.2
9	16.0	6.1	14.5	10.7	12.4	9.1	4.1	3.4	2.7	1.6	1.1	1.2
10	14.0	7.0	16.8	10.5	11.0	8.5	4.1	3.7	2.7	1.5	1.1	1.3
11	12.0	8.1	16.6	11.0	9.8	8.4	4.0	3.8	2.7	1.9	1.1	1.4
12	10.4	9.7	15.0	13.7	9.5	8.0	4.0	5.7	2.6	1.8	1.1	1.5
13	9.3	10.2	13.5	13.8	9.5	7.6	4.4	9.2	2.7	1.7	1.1	1.4
14	8.7	9.6	12.3	13.0	11.4	7.0	5.0	8.7	2.6	1.6	1.1	1.4
15	8.2	9.3	11.7	12.1	14.3	6.7	5.4	7.7	2.6	1.6	1.1	1.6
16	7.9	8.7	11.3	11.2	14.4	6.5	4.9	6.8	2.7	1.5	1.2	2.2
17	8.0	9.3	10.7	10.3	13.8	6.4	4.9	6.2	2.8	1.5	1.2	2.1
18	8.4	9.4	14.1	9.6	12.3	6.5	4.6	5.2	2.8	1.4	1.2	1.8
19	9.2	8.8	18.2	9.3	11.9	7.3	4.5	4.3	2.7	1.4	1.1	1.8
20	9.2	8.2	20.5	8.8	11.2	10.3	4.5	4.2	2.6	1.3	1.1	2.8
21	8.9	7.8	21.4	8.3	10.8	9.8	5.4	4.1	2.6	1.3	1.1	4.8
22	8.7	7.5	20.9	8.0	10.4	8.5	5.4	4.2	2.5	1.2	1.1	4.9
23	8.4	7.4	20.3	7.6	9.8	7.7	5.7	4.1	2.4	1.2	1.1	4.7
24	8.5	7.1	19.4	7.3	9.1	7.0	5.8	4.4	2.4	1.1	1.2	4.5
25	7.9	7.0	18.2	7.2	8.8	6.5	5.6	4.4	2.3	1.1	1.3	4.2
26	7.9	7.0	16.4	6.9	8.2	6.0	4.7	4.2	2.4	1.0	1.3	4.1
27	8.0	9.0	14.4	7.0	7.9	5.8	5.0	4.1	2.1	1.0	1.3	4.0
28	8.1	8.8	12.7	12.2	7.5	5.6	5.1	4.0	2.1	1.0	1.3	3.9
29	8.0	-----	11.3	14.9	7.4	5.3	4.8	3.8	2.0	1.0	1.2	3.7
30	7.5	-----	10.5	14.0	7.0	5.3	4.6	3.8	2.0	1.0	1.2	3.6
31	6.7	-----	9.9	-----	6.8	-----	4.6	3.8	-----	1.0	-----	2.6

DAILY RIVER STAGES.

Mississippi River system—Arkansas River, Little Rock, Ark.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.5	6.3	4.4	21.0	9.5	11.9	10.3	7.5	6.0	5.5	5.3	7.7
2	3.5	6.0	4.3	19.8	10.0	11.2	10.5	7.8	5.9	8.6	4.8	7.3
3	3.1	5.8	4.1	18.0	12.2	10.6	11.4	7.5	5.8	5.7	4.6	7.0
4	3.0	5.4	3.8	15.8	14.0	10.2	12.5	7.5	5.6	5.5	4.5	6.2
5	2.9	5.3	3.7	14.0	20.4	9.9	12.5	14.0	5.5	5.4	4.4	5.8
6	3.2	5.1	3.7	12.8	23.7	9.8	11.8	15.5	5.3	5.2	4.3	5.5
7	3.7	4.9	3.5	11.4	24.5	10.4	11.0	14.5	5.0	6.5	4.2	5.5
8	4.1	4.6	3.3	10.9	25.4	10.5	10.3	13.5	4.8	6.5	4.1	5.1
9	4.0	4.4	3.2	10.1	26.1	10.8	9.0	12.8	4.7	6.0	4.3	5.0
10	3.7	4.2	3.1	9.7	26.9	11.4	8.2	14.4	4.6	5.3	4.3	4.8
11	3.6	4.1	3.0	10.4	27.2	11.2	8.2	12.5	4.6	5.0	4.2	4.6
12	4.8	4.0	3.0	11.1	27.0	10.6	8.2	12.2	4.5	4.8	4.5	4.4
13	4.9	3.8	7.9	10.1	26.4	10.5	8.2	12.9	4.6	4.9	4.0	4.3
14	5.0	4.0	18.3	9.4	25.4	10.0	7.9	13.2	4.6	6.4	3.9	3.9
15	6.3	3.8	18.1	8.9	24.2	11.4	7.7	13.1	8.6	8.2	3.8	3.6
16	6.9	3.8	17.5	8.2	22.8	11.4	7.5	12.5	10.3	9.7	3.8	4.0
17	7.8	5.4	18.0	7.9	20.8	11.8	7.4	11.3	10.4	9.0	3.6	3.8
18	8.0	7.6	17.7	7.8	18.5	14.6	7.0	10.2	11.3	8.2	3.6	3.8
19	7.6	8.0	16.5	7.4	16.5	15.3	6.9	9.3	11.0	8.5	3.5	3.9
20	7.9	8.1	15.2	7.0	15.2	14.4	6.9	8.6	10.0	9.5	3.5	4.4
21	8.0	7.0	13.7	7.1	15.1	13.6	6.5	7.8	10.0	9.4	3.5	5.1
22	8.0	6.6	13.3	7.4	17.9	13.2	6.5	7.5	10.5	8.9	3.6	6.5
23	9.0	6.0	17.4	8.0	21.2	13.4	6.5	7.3	10.9	8.2	4.0	8.4
24	10.1	5.8	18.5	9.2	22.2	13.4	6.3	7.4	10.5	7.6	6.5	12.8
25	10.0	5.4	18.5	10.4	22.5	12.7	5.8	8.5	9.4	7.0	7.5	13.2
26	9.8	5.0	18.2	11.4	21.5	12.3	8.5	8.0	8.7	6.5	8.3	12.8
27	9.4	4.8	18.1	12.0	19.5	11.2	12.3	7.2	8.0	6.2	8.7	12.0
28	8.5	4.6	19.0	11.6	17.3	10.4	11.6	6.9	7.3	6.3	8.5	11.2
29	7.9	-----	22.0	10.9	15.7	10.8	10.1	6.3	6.6	6.3	8.5	10.5
30	7.5	-----	22.3	10.0	14.6	10.5	9.0	6.0	6.0	5.9	8.1	9.6
31	6.6	-----	22.0	-----	13.1	-----	8.1	5.9	-----	5.5	-----	8.8

1899.

1	8.2	6.0	7.9	6.6	14.6	12.5	6.8	8.9	3.8	2.9	2.3	6.1
2	8.0	5.7	9.5	6.0	12.2	11.9	6.5	7.9	3.7	2.9	2.4	6.0
3	7.6	5.5	12.0	5.9	10.5	11.1	6.4	7.3	3.7	2.8	2.5	5.8
4	7.0	5.3	12.2	5.7	9.6	10.4	6.4	6.9	3.6	2.8	2.9	5.5
5	7.2	5.0	11.3	5.3	9.4	10.0	6.2	6.5	3.6	2.8	3.5	5.0
6	8.0	5.0	10.0	5.0	10.0	10.5	6.0	6.4	3.5	2.9	3.7	4.7
7	8.2	5.0	9.0	5.4	10.5	9.9	5.9	6.3	3.5	2.8	3.7	4.5
8	8.4	4.8	8.0	5.8	18.6	9.4	5.9	6.0	3.4	2.7	3.6	4.2
9	8.5	Frozen.	7.1	5.8	22.9	9.4	5.5	5.8	3.3	2.7	3.4	4.0
10	8.2	-----	6.8	5.5	24.3	10.5	5.4	5.5	3.2	2.7	3.3	3.8
11	9.2	-----	6.4	5.3	24.5	12.2	5.4	5.4	3.2	2.7	3.0	3.8
12	11.7	-----	6.2	4.8	24.0	13.4	10.2	5.2	3.1	2.7	2.9	3.7
13	13.4	-----	5.9	4.5	22.9	14.2	11.4	4.9	3.1	2.6	2.8	3.8
14	14.8	-----	5.4	4.3	22.7	13.7	12.0	4.7	3.1	2.6	2.8	3.9
15	14.6	-----	5.2	4.4	22.2	13.5	12.7	4.5	3.0	2.5	2.7	3.9
16	14.6	-----	5.1	5.0	21.0	16.0	13.0	4.4	3.0	2.4	2.7	3.8
17	14.0	-----	4.9	5.5	20.0	16.9	12.4	4.3	3.0	2.4	2.6	3.7
18	13.4	4.0	4.9	5.5	18.2	16.5	11.0	4.3	3.0	2.5	2.6	3.7
19	12.6	4.2	5.5	5.4	16.5	15.3	9.4	4.3	2.9	2.5	2.6	3.9
20	12.0	4.5	8.3	5.1	14.6	13.5	8.2	4.3	2.9	2.5	2.5	4.2
21	11.0	4.4	10.0	6.4	13.1	12.5	7.5	4.5	2.9	2.5	2.5	5.5
22	10.4	4.2	10.1	7.5	12.2	11.5	7.8	5.4	2.8	2.4	2.8	7.5
23	9.8	4.2	9.6	9.1	11.8	11.1	9.7	5.7	2.8	2.4	3.3	9.0
24	9.2	4.1	8.8	11.7	12.0	10.5	10.2	5.5	3.0	2.3	3.8	8.9
25	8.3	4.0	8.5	18.2	12.4	9.6	12.0	5.2	3.0	2.3	7.0	8.5
26	8.0	4.4	8.3	20.2	13.8	9.0	13.5	4.9	3.0	2.3	7.5	8.0
27	7.6	5.7	8.0	19.5	14.2	8.5	14.4	4.7	3.0	2.3	6.9	7.8
28	7.3	7.5	7.9	17.9	14.0	8.0	13.5	4.4	2.9	2.3	6.0	7.6
29	6.9	-----	7.6	16.4	13.5	7.5	12.4	4.2	2.9	2.3	5.7	7.0
30	6.5	-----	7.5	14.9	13.3	7.0	11.0	4.0	2.9	2.3	6.0	6.4
31	6.4	-----	7.0	-----	12.7	-----	10.0	3.9	-----	2.3	-----	5.6

120.4 at 10 a. m.

DAILY RIVER STAGES.

187

*Mississippi River system (Arkansas River branch)—White River, Newport, Ark.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.8	11.3	7.1	15.8	17.7	10.1	4.1	1.7	1.1	1.0	1.1	2.4
2	17.7	11.2	6.7	17.7	17.9	10.8	4.0	1.7	0.9	1.0	1.1	2.7
3	15.6	11.4	6.4	17.9	17.0	11.6	4.0	1.6	0.9	1.0	1.1	3.4
4	13.6	11.6	6.2	17.3	15.8	14.5	3.9	1.4	0.8	0.9	1.1	3.6
5	12.1	11.9	6.0	16.4	13.8	14.7	3.6	1.4	0.8	0.8	1.4	3.2
6	10.8	12.4	6.0	15.3	13.8	12.4	3.5	1.3	0.8	0.8	2.7	2.8
7	9.8	12.7	6.6	14.0	11.8	11.1	3.2	1.3	0.8	0.6	2.8	2.6
8	9.3	13.0	7.0	12.6	10.5	9.3	3.1	1.2	0.7	0.6	2.5	2.6
9	8.8	12.8	7.2	11.8	9.1	9.3	2.8	1.1	0.7	0.6	2.5	2.4
10	8.2	12.2	7.2	11.0	8.0	8.6	2.7	1.1	1.1	0.5	2.3	2.4
11	8.0	11.3	7.0	10.3	7.2	7.9	2.5	1.1	1.2	0.5	2.1	2.3
12	7.5	10.2	6.7	9.7	6.5	7.4	2.2	0.9	1.1	0.5	1.9	2.3
13	7.1	10.7	6.5	9.6	6.1	7.2	2.1	0.9	1.1	0.4	1.8	2.0
14	6.9	13.0	6.3	11.6	5.8	7.0	2.1	0.9	0.8	0.5	1.8	2.0
15	6.2	15.3	6.3	13.5	5.6	6.6	2.0	0.9	0.8	0.5	1.6	1.9
16	5.6	16.1	6.6	14.0	5.5	6.2	2.0	0.9	0.6	0.5	1.5	1.8
17	5.3	16.1	7.1	12.3	5.3	5.8	1.9	0.8	0.6	0.5	1.4	1.8
18	4.6	15.7	7.4	11.6	5.0	5.5	1.8	0.8	0.5	0.5	1.4	1.6
19	5.0	15.4	7.9	11.3	5.0	5.5	1.8	0.8	0.5	0.5	1.2	1.6
20	4.8	14.7	8.5	9.9	5.0	5.2	1.8	0.8	0.4	0.4	1.1	1.6
21	4.6	13.7	9.1	9.0	5.6	5.2	1.7	8.8	0.3	0.4	1.1	1.4
22	4.0	13.6	9.7	8.6	6.0	5.2	1.7	0.8	0.2	0.4	1.1	1.4
23	4.0	11.8	9.9	9.1	7.0	5.0	1.7	1.0	0.2	0.4	1.1	1.3
24	5.8	10.7	10.1	12.9	7.2	4.8	1.6	1.0	0.2	0.5	1.1	1.3
25	8.4	9.8	10.4	13.1	11.7	4.7	1.5	1.0	0.2	0.6	1.1	1.3
26	9.7	9.1	10.7	12.0	14.7	4.6	1.5	1.0	1.3	0.7	1.0	1.2
27	9.6	8.5	11.0	12.0	16.2	4.6	1.9	1.5	0.6	0.7	1.2	1.1
28	9.2	8.0	11.7	13.1	15.4	4.6	2.0	1.4	0.7	0.7	1.8	1.1
29	9.0	7.5	12.1	15.9	15.7	4.2	1.9	1.3	0.7	0.7	2.0	1.0
30	8.7	-----	11.9	16.8	11.1	4.2	1.8	1.3	0.8	0.8	2.0	1.0
30	9.0	-----	11.6	-----	10.6	-----	1.8	1.2	-----	1.0	-----	0.9

1897.

1	0.9	7.4	6.9	21.2	17.1	4.0	2.8	2.0	0.9	0.2	0.4	0.4
2	1.0	6.7	6.5	22.3	16.4	3.8	2.8	1.9	0.8	0.2	0.4	0.4
3	6.2	6.3	6.3	23.7	16.0	3.8	3.2	1.7	0.8	0.2	0.4	0.4
4	18.2	6.1	6.2	24.0	15.4	4.0	3.1	1.6	0.7	0.2	0.4	0.5
5	24.1	6.6	7.0	24.0	14.7	4.0	2.7	1.5	0.7	0.2	0.4	0.5
6	27.0	7.5	13.0	24.2	13.6	4.0	2.6	1.4	0.7	0.2	0.4	0.5
7	27.9	8.2	17.7	24.1	12.5	3.7	2.6	1.4	0.6	0.2	0.4	0.5
8	27.5	9.3	21.3	23.6	11.4	3.7	2.5	1.6	0.6	0.2	0.4	0.5
9	25.9	11.5	22.5	23.2	10.4	4.1	2.4	1.7	0.6	0.2	0.4	0.5
10	24.2	12.7	22.7	24.0	9.6	4.2	2.3	2.2	0.6	0.2	0.4	0.7
11	23.0	13.7	22.8	25.6	9.0	4.2	2.3	2.1	0.5	0.1	0.4	0.7
12	21.6	13.9	22.0	26.3	9.3	4.0	2.3	1.9	0.5	0.1	0.4	0.9
13	20.4	13.6	21.4	26.4	10.1	3.7	2.2	1.8	0.5	0.1	0.3	1.0
14	19.2	13.1	20.7	26.2	10.1	3.5	2.1	1.8	0.5	0.1	0.3	1.0
15	18.0	12.4	19.8	25.5	9.5	3.4	2.1	1.7	0.5	0.1	0.3	1.1
16	17.1	11.6	19.0	24.9	8.7	3.3	1.9	1.6	0.5	0.1	0.3	0.9
17	16.6	10.9	18.3	24.0	8.0	3.3	1.9	1.5	0.4	0.1	0.3	1.6
18	16.6	10.1	19.7	23.3	7.4	3.1	1.8	1.4	0.4	0.2	0.3	2.2
19	16.0	9.4	22.3	22.5	6.9	3.0	1.8	1.4	0.4	0.2	0.3	2.5
20	15.6	8.8	24.0	21.8	6.4	3.1	1.8	1.3	0.4	0.2	0.5	3.2
21	15.3	8.2	26.8	20.9	5.9	4.0	2.4	1.2	0.3	0.2	0.5	3.8
22	14.9	8.2	27.9	20.2	5.7	4.3	2.5	1.2	0.3	0.2	0.5	4.1
23	14.7	8.5	27.7	19.4	5.4	4.0	2.5	1.1	0.3	0.2	0.5	4.1
24	14.1	8.3	27.3	18.6	5.1	3.6	2.7	1.1	0.3	0.2	0.4	4.7
25	13.7	7.8	26.6	17.9	4.9	3.4	2.7	1.0	0.2	0.2	0.4	4.3
26	13.1	7.5	25.4	17.2	4.7	3.2	2.4	1.0	0.2	0.2	0.4	4.1
27	12.2	7.5	24.4	16.7	4.5	3.1	2.3	1.0	0.2	0.2	0.4	4.1
28	11.6	7.4	23.4	17.0	4.2	3.0	2.2	0.9	0.2	0.2	0.4	3.9
29	11.1	-----	22.6	17.1	4.1	2.8	2.2	0.9	0.2	0.2	0.4	3.9
30	9.2	-----	21.9	17.2	4.1	2.8	2.2	0.8	0.2	0.2	0.4	3.3
31	8.0	-----	21.3	-----	4.1	-----	2.1	0.9	-----	0.2	-----	3.0

Mississippi River system (Arkansas River branch)—White River, Newport, Ark.—Continued

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.8	8.7	7.1	30.7	14.3	14.5	6.4	5.5	3.4	10.3	7.6	7.3
2	2.6	7.8	7.5	30.1	15.3	12.8	6.1	7.0	3.3	11.9	6.2	6.7
3	2.6	7.1	7.1	28.6	17.3	11.5	5.7	7.1	3.2	13.6	5.8	6.1
4	2.3	6.5	6.4	27.7	20.1	10.2	5.6	11.7	3.0	13.8	5.3	5.7
5	2.2	6.1	5.9	27.0	23.9	9.3	5.3	13.5	2.9	13.4	5.1	5.5
6	2.4	5.6	5.4	26.2	28.7	8.6	5.4	12.5	2.7	13.0	4.8	5.2
7	2.7	5.4	5.1	25.6	31.6	8.1	5.4	11.2	2.6	12.3	4.6	4.9
8	2.5	5.1	4.7	25.2	32.1	7.6	5.1	9.9	2.6	11.6	4.2	4.7
9	2.3	4.9	4.4	24.7	31.7	7.5	4.8	11.1	2.5	11.0	4.1	4.5
10	2.1	4.6	4.2	24.1	31.0	7.2	4.6	14.5	2.4	10.5	4.1	4.2
11	2.2	4.7	4.2	23.6	29.5	7.1	4.5	18.4	2.5	10.0	4.3	4.1
12	2.6	5.3	4.5	22.8	27.8	7.0	4.4	20.7	2.4	9.9	4.5	4.0
13	3.3	5.5	17.2	22.0	26.3	6.8	4.2	19.8	3.6	9.3	4.4	3.9
14	3.2	5.5	23.5	21.3	25.1	6.7	4.0	17.6	5.3	9.0	4.2	3.8
15	6.7	4.9	27.3	20.6	24.0	6.8	3.8	15.0	5.5	8.9	4.2	3.6
16	8.3	4.5	28.5	19.8	22.9	6.7	3.7	14.6	8.2	8.6	4.1	3.6
17	9.6	4.1	28.2	19.0	22.0	6.6	3.7	10.5	8.2	9.3	4.0	3.5
18	10.5	3.8	27.9	18.3	21.2	7.0	3.7	8.6	8.8	8.9	4.0	3.5
19	10.1	3.7	27.2	17.7	20.2	7.7	3.6	7.6	8.7	8.2	3.9	5.0
20	12.2	3.6	26.7	17.0	19.4	8.3	3.7	6.9	8.2	8.6	3.8	7.0
21	13.4	3.5	26.4	16.4	18.8	8.8	3.8	6.8	8.1	11.6	3.6	9.4
22	13.4	3.5	27.5	16.0	19.3	8.5	3.8	6.2	9.5	12.9	3.9	11.7
23	14.0	3.5	29.4	15.4	19.3	7.8	4.4	5.8	10.6	14.4	4.5	12.7
24	14.2	3.5	30.5	14.9	20.8	7.2	4.2	5.4	13.4	14.2	7.4	12.5
25	14.2	3.6	30.9	14.5	22.6	6.7	4.1	5.4	13.5	13.6	9.9	12.1
26	14.0	3.6	30.8	14.3	22.5	6.3	6.7	5.1	12.3	12.8	10.4	11.3
27	13.2	4.1	30.1	13.6	21.4	6.2	6.6	4.7	10.9	11.6	11.3	10.3
28	12.4	6.1	29.6	13.2	20.2	6.1	5.7	4.3	9.7	10.3	10.5	9.3
29	11.6	-----	30.6	13.1	18.9	6.1	5.3	4.0	8.3	9.2	9.3	8.5
30	10.6	-----	32.0	13.1	17.5	6.5	4.8	3.8	7.7	8.2	8.2	7.9
31	9.6	-----	31.4	-----	16.1	-----	4.9	3.6	-----	8.2	-----	7.3

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.7	11.3	16.8	10.7	19.0	11.6	3.4	4.5	1.5	0.9	1.2	3.5
2	6.3	10.3	16.7	10.3	17.9	13.0	3.3	4.1	1.4	0.9	2.6	3.2
3	5.9	9.5	16.4	9.8	16.6	14.3	3.1	3.8	1.4	0.9	2.9	2.9
4	5.7	8.7	16.2	9.4	15.3	13.2	3.0	3.5	1.4	0.9	2.9	2.7
5	7.3	8.0	16.0	9.1	14.2	11.8	3.1	3.3	1.3	0.9	2.4	2.5
6	9.1	7.4	15.6	8.7	13.1	10.4	3.0	3.2	1.3	0.9	2.1	2.4
7	9.6	6.8	14.9	8.6	12.5	9.1	3.0	3.2	1.3	0.8	1.9	2.2
8	10.1	6.0	14.2	8.8	14.5	8.0	3.2	3.1	1.2	0.8	1.8	2.1
9	10.3	5.5	13.5	8.7	20.5	7.2	3.0	3.1	1.2	0.8	1.7	2.1
10	10.4	5.4	12.6	8.4	25.3	6.9	2.9	2.7	1.2	0.8	1.6	2.0
11	11.4	5.0	11.7	8.1	27.1	8.2	2.9	2.6	1.2	0.7	1.5	2.1
12	13.1	4.6	11.1	8.0	27.9	8.5	2.7	2.5	1.2	0.7	1.4	2.3
13	15.7	4.2	10.6	7.5	28.0	8.2	2.6	2.4	1.2	0.9	1.4	2.7
14	19.7	3.7	10.4	7.2	27.2	8.3	2.5	2.3	1.1	0.9	1.3	3.0
15	21.7	3.4	10.1	7.1	26.3	8.1	2.5	2.3	1.1	0.9	1.3	3.5
16	22.4	4.9	9.8	7.0	25.2	7.4	2.5	2.6	1.0	0.9	1.3	3.8
17	22.7	4.8	9.4	7.1	24.1	6.8	2.4	2.5	1.0	0.9	1.2	3.8
18	22.6	5.0	9.5	7.5	23.0	6.3	2.4	2.2	1.0	1.1	1.2	3.5
19	22.3	5.2	13.2	8.0	21.9	6.1	2.4	2.1	1.3	1.3	1.3	3.7
20	21.8	5.5	14.1	8.4	20.8	5.6	2.3	2.0	1.5	1.3	3.8	5.9
21	21.0	5.5	14.3	8.4	19.7	5.2	2.3	1.8	1.4	1.2	4.7	6.7
22	20.1	5.7	14.1	8.6	18.7	5.0	4.5	1.8	1.3	1.2	3.6	6.3
23	19.2	6.0	13.7	9.6	17.7	4.8	12.7	1.7	1.2	1.2	3.4	5.9
24	18.4	6.0	13.4	15.2	17.1	4.5	14.9	1.7	1.1	1.1	3.5	5.4
25	17.5	5.8	12.9	19.3	16.4	4.3	15.9	1.6	1.1	1.1	5.3	5.0
26	16.7	7.6	12.2	21.3	15.6	4.1	15.7	1.5	1.0	1.0	5.5	5.3
27	15.5	11.6	11.4	22.2	14.7	4.0	13.2	1.5	1.0	1.0	5.0	5.2
28	14.9	15.7	11.1	22.1	13.8	3.8	10.7	1.6	1.0	1.1	4.3	5.1
29	13.8	-----	11.6	21.2	13.3	3.6	8.3	1.8	1.0	1.1	4.2	5.1
30	13.0	-----	11.5	20.1	12.4	3.5	6.3	1.8	0.9	1.1	3.8	4.9
31	12.5	-----	11.2	-----	12.2	-----	5.2	1.8	-----	1.1	-----	4.6

DAILY RIVER STAGES.

189

Mississippi River system (Red River branch)—Ouachita River, Camden, Ark.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.7	19.2	11.0	14.8	9.2	4.9	3.3	2.7	2.7	3.3	7.0	15.0
2	10.8	26.3	10.0	17.0	9.1	4.9	3.2	2.6	2.7	3.7	6.9	12.6
3	9.8	29.4	9.4	22.3	8.2	4.8	3.2	2.6	2.7	4.0	6.0	9.5
4	9.2	31.2	8.9	26.1	7.3	4.7	3.1	2.6	2.6	3.7	5.2	8.0
5	8.7	32.8	8.1	28.2	6.8	4.6	3.1	2.6	2.6	3.5	4.6	7.0
6	8.0	33.7	7.9	28.4	6.9	4.5	3.0	2.6	2.5	3.4	4.3	6.4
7	7.5	34.0	9.8	27.0	6.6	4.4	3.0	2.6	2.5	3.3	4.3	6.1
8	7.5	33.2	12.0	24.3	6.2	4.4	3.0	2.6	2.5	3.2	4.4	6.0
9	9.7	32.0	12.2	21.0	6.0	4.3	3.0	2.5	2.5	3.2	4.4	5.8
10	11.6	30.3	11.5	18.0	5.9	4.2	3.0	2.5	2.4	3.1	4.2	5.5
11	12.0	28.5	10.3	15.9	5.7	4.1	3.2	2.5	2.4	3.1	4.2	5.8
12	11.0	26.0	9.4	13.8	5.3	4.0	3.2	2.5	2.4	3.2	4.2	7.0
13	10.4	24.2	9.0	14.5	5.0	3.9	3.2	2.5	2.4	3.2	4.1	7.7
14	9.3	24.5	8.9	21.0	5.0	3.9	3.1	2.4	2.4	3.1	4.1	7.0
15	9.0	27.0	8.8	26.0	5.3	3.8	3.2	2.5	2.4	3.0	4.0	6.8
16	9.5	29.0	9.1	26.9	7.2	3.7	3.2	2.5	2.4	3.2	4.0	6.3
17	15.5	30.3	13.4	26.3	8.4	3.7	3.2	2.5	2.4	3.2	4.0	6.0
18	19.2	31.1	19.4	24.9	12.0	3.7	3.2	2.5	2.4	3.1	4.0	5.8
19	20.2	30.8	22.3	22.0	15.2	3.6	3.1	2.5	2.3	3.0	4.0	5.5
20	19.4	29.5	24.6	19.4	14.0	3.5	3.1	2.5	2.3	3.0	4.2	5.2
21	17.0	27.1	26.6	16.5	11.4	3.4	3.0	2.5	2.3	2.9	4.0	5.1
22	15.3	24.2	27.7	14.5	9.3	3.3	3.0	2.4	2.3	2.9	3.9	4.9
23	14.2	21.0	28.1	13.0	8.0	3.2	2.9	2.4	2.3	3.2	3.9	4.8
24	14.8	17.5	27.2	11.4	7.2	3.2	2.9	2.4	2.3	3.3	3.9	4.8
25	17.8	16.5	25.7	10.0	6.8	3.3	2.9	2.4	2.2	3.4	3.8	4.7
26	18.0	16.0	24.4	8.6	6.3	3.5	2.9	2.5	2.2	3.4	3.8	4.6
27	16.0	15.0	23.3	8.0	6.0	3.5	2.8	2.6	2.7	3.5	3.9	4.5
28	14.7	13.8	21.5	7.1	5.6	3.5	2.8	2.7	2.9	3.5	8.0	4.4
29	13.2	12.3	19.1	6.7	5.2	3.5	2.7	2.7	3.0	3.8	13.3	4.3
30	11.8		17.5	6.6	5.0	3.4	2.7	2.7	3.2	4.2	15.9	4.2
31	11.7		15.8		4.9		2.7	2.7		4.8		4.1

1897.

1	4.1	8.6	6.8	23.0	8.4	4.3	4.0	3.6	3.2	2.5	2.7	3.5
2	4.4	8.4	6.6	22.8	8.2	4.3	4.0	3.6	3.2	2.5	2.8	3.5
3	7.0	8.7	6.5	21.8	8.0	4.5	3.9	3.5	3.1	2.5	2.8	3.5
4	18.5	9.1	6.4	20.5	7.3	6.5	3.8	3.4	3.1	2.5	2.9	3.6
5	25.2	9.1	7.1	20.3	6.9	10.2	3.7	3.4	3.0	2.5	2.9	3.6
6	28.2	9.2	8.6	20.4	6.3	13.0	3.7	3.3	3.0	2.5	2.9	3.6
7	30.0	9.3	18.2	20.0	5.9	14.1	3.6	3.3	3.0	2.5	2.9	3.6
8	30.5	9.8	22.2	18.8	5.2	12.9	3.5	3.2	2.9	2.5	3.0	3.6
9	29.9	10.3	24.0	17.6	5.5	11.0	3.5	3.2	2.9	2.5	3.0	3.6
10	27.0	12.5	23.2	17.4	5.4	9.3	3.5	3.2	2.9	2.5	3.0	3.6
11	24.1	13.4	21.3	18.7	5.6	8.1	3.4	3.7	2.8	2.6	3.0	4.0
12	20.0	13.5	19.2	18.9	5.8	7.1	3.4	3.9	2.7	2.6	3.0	4.1
13	16.8	13.1	23.2	17.9	6.4	6.2	3.3	4.1	2.7	2.6	3.0	4.3
14	14.2	12.8	26.0	16.6	7.0	5.9	3.3	4.5	2.7	2.6	3.0	5.0
15	12.7	12.2	27.2	18.7	7.5	5.7	3.2	5.7	2.7	2.6	3.0	5.3
16	11.5	11.5	27.4	22.4	7.9	5.4	3.2	5.3	2.7	2.6	3.0	5.1
17	14.5	10.5	29.2	24.3	7.8	5.2	3.2	4.8	2.6	2.6	3.0	4.8
18	20.5	9.5	29.5	24.8	7.0	4.9	3.2	4.4	2.6	2.5	3.1	4.5
19	25.0	9.0	31.0	23.7	6.2	4.7	3.4	4.2	2.6	2.4	3.1	4.5
20	26.9	8.5	32.5	21.0	5.8	4.6	3.7	4.0	2.6	2.4	3.1	4.6
21	27.5	8.0	35.0	18.3	5.5	5.1	4.6	3.9	2.6	2.4	3.1	5.0
22	27.4	7.7	38.1	15.5	5.2	5.0	4.6	3.8	2.5	2.4	3.1	11.2
23	26.3	7.6	38.7	13.9	5.0	4.7	5.3	3.7	2.5	2.4	3.1	14.2
24	24.6	7.5	37.5	12.0	4.8	4.6	5.0	3.6	2.5	2.4	3.1	15.0
25	21.0	7.5	36.0	11.0	4.7	4.4	4.6	3.5	2.5	2.4	3.1	14.1
26	18.2	7.4	33.8	10.0	4.6	4.3	4.4	3.4	2.5	2.4	3.2	12.7
27	15.9	7.1	32.4	9.2	4.5	4.2	4.4	3.3	2.5	2.4	3.3	11.6
28	14.0	7.0	30.2	8.6	4.4	4.2	4.3	3.3	2.5	2.4	3.4	11.0
29	12.2		28.2	8.2	4.3	4.1	4.1	3.3	2.5	2.4	3.4	10.3
30	10.8		26.0	8.1	4.3	4.1	3.9	3.2	2.5	2.4	3.4	9.5
31	9.3		23.7		4.3		3.8	3.2		2.5		9.0

Mississippi River system (Red River branch)—Ouachita River, Camden, Ark.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.1	25.3	9.1	18.0	9.1	7.4	6.1	4.5	4.0	4.0	5.3	7.3
2	7.3	22.8	8.8	15.4	8.9	7.0	6.3	4.5	4.0	4.0	5.1	7.0
3	6.9	20.1	8.6	13.1	8.4	6.5	6.0	4.4	4.0	3.9	4.9	6.8
4	6.3	17.8	8.2	11.8	15.4	6.5	5.8	4.4	3.9	3.8	4.7	6.6
5	6.0	16.0	7.9	10.5	21.4	6.6	5.6	4.8	3.7	7.0	4.5	6.4
6	6.3	14.3	7.4	10.0	25.2	6.5	5.5	5.3	3.6	6.8	4.3	6.5
7	7.5	13.7	7.1	9.5	27.0	6.3	5.4	6.3	3.5	6.3	4.2	6.7
8	15.0	13.0	6.8	9.3	28.0	6.3	5.3	6.0	3.4	6.0	4.0	6.9
9	16.2	11.7	6.6	9.0	28.8	9.0	5.2	5.7	3.4	6.0	4.1	6.8
10	15.0	10.8	6.5	8.1	28.9	8.8	5.5	5.4	3.3	6.3	4.6	6.7
11	14.6	10.3	6.3	7.9	27.2	8.2	5.6	5.3	2.3	6.1	11.0	6.5
12	14.0	10.9	6.2	7.4	24.0	7.3	5.4	6.5	3.2	5.9	13.3	6.3
13	18.5	12.4	6.2	7.3	20.0	6.7	5.3	7.2	3.2	5.7	13.2	6.1
14	23.3	13.0	6.5	7.1	16.2	6.4	5.2	6.4	3.2	5.5	11.5	5.9
15	25.8	13.1	14.4	7.0	13.2	6.3	5.1	5.8	3.5	5.2	10.6	5.8
16	28.0	12.8	20.0	6.9	11.0	10.0	5.0	5.4	4.0	5.1	9.4	5.7
17	29.5	12.5	20.4	6.5	9.1	10.7	4.8	5.1	4.0	5.0	8.5	5.7
18	30.7	11.4	18.2	6.3	7.9	11.1	4.6	4.8	4.2	4.9	7.5	5.7
19	31.4	10.6	16.5	6.2	7.1	11.6	4.5	4.6	5.2	4.7	6.7	5.8
20	31.9	10.1	14.5	6.0	6.9	12.0	4.3	4.5	5.0	4.6	6.5	6.0
21	32.0	10.4	12.5	6.0	6.8	10.4	4.2	4.3	5.0	5.4	6.0	7.0
22	32.4	12.0	11.4	5.9	7.5	8.9	4.6	4.2	4.8	8.0	5.8	8.8
23	33.0	13.5	10.2	6.3	16.5	8.2	5.1	4.2	4.7	12.1	6.0	10.1
24	33.4	13.3	9.2	7.7	22.0	8.4	4.9	4.2	4.6	11.5	8.0	9.7
25	33.7	12.5	9.0	13.0	24.2	8.5	4.7	4.2	5.1	10.2	9.7	9.4
26	33.5	11.2	8.2	16.6	23.7	8.1	4.6	4.1	5.1	8.5	11.0	8.5
27	33.1	10.1	8.0	15.4	20.0	7.2	4.5	4.1	5.0	7.8	10.2	8.0
28	32.2	9.5	7.7	13.1	16.0	6.5	4.7	4.2	4.9	6.7	9.1	7.5
29	31.1	-----	7.6	11.2	12.5	6.1	4.5	4.5	4.7	6.1	8.5	7.1
30	29.3	-----	15.0	9.9	10.1	5.8	4.6	4.3	4.3	5.7	8.0	6.9
31	27.7	-----	18.7	-----	8.4	-----	4.5	4.1	-----	5.5	-----	6.5

1899.

1	6.3	14.6	18.5	10.8	18.2	29.1	5.5	4.0	3.1	2.7	3.0	5.0
2	6.1	13.7	18.6	10.1	15.0	30.7	5.4	3.9	3.1	2.7	2.9	6.0
3	6.0	12.7	17.3	9.2	12.4	31.4	5.3	3.8	3.0	2.6	2.9	5.8
4	5.9	11.5	15.8	8.4	10.3	31.3	5.2	3.7	3.0	2.6	2.9	5.8
5	5.9	11.2	14.1	7.8	9.3	30.4	5.2	3.6	3.0	2.5	3.1	5.2
6	6.5	10.7	13.1	7.6	13.3	27.8	5.1	3.6	3.0	2.5	3.2	4.9
7	10.5	11.4	12.2	7.8	20.4	24.2	5.0	3.5	2.9	2.5	3.2	4.5
8	13.8	11.2	11.4	9.7	21.4	20.4	4.9	3.4	2.9	2.5	3.2	4.3
9	16.0	10.7	10.5	14.5	19.0	16.7	4.9	3.4	2.9	2.5	3.1	4.1
10	16.5	10.1	9.7	16.1	15.7	14.0	4.9	3.4	2.8	2.5	3.1	4.1
11	15.8	9.5	9.1	15.8	13.2	12.5	4.8	3.4	2.8	2.5	3.1	4.5
12	17.2	8.9	8.3	14.6	12.0	11.3	4.7	3.3	2.8	2.5	3.1	4.7
13	21.2	8.6	8.1	13.2	12.5	10.3	4.5	3.3	3.0	2.5	3.1	4.8
14	24.8	8.3	8.3	11.3	18.5	10.1	4.3	3.3	3.0	2.4	3.1	6.0
15	28.2	8.0	9.2	9.8	23.6	9.2	4.1	3.2	2.9	2.4	3.0	7.7
16	33.1	7.5	10.2	9.2	26.0	8.0	4.0	3.2	2.9	2.4	3.0	7.5
17	38.0	7.2	11.0	9.0	25.5	8.2	4.0	3.2	2.9	2.4	3.0	6.8
18	39.1	7.0	11.0	12.1	22.7	10.0	3.9	3.1	2.9	2.4	2.9	6.5
19	38.2	7.3	11.2	12.2	20.2	12.0	3.9	3.1	2.9	2.4	3.0	6.3
20	36.4	8.0	12.4	11.7	18.3	10.3	4.0	3.1	3.0	2.4	3.0	7.2
21	34.8	8.1	13.6	10.7	19.8	8.0	3.9	3.0	3.0	2.6	3.0	7.2
22	33.0	8.0	13.5	10.4	19.0	7.5	3.8	3.0	3.0	2.6	3.0	10.0
23	31.0	7.9	12.8	13.8	17.5	6.9	3.8	3.0	3.0	2.6	3.0	10.7
24	28.8	7.7	11.3	19.0	18.0	6.2	3.8	2.9	3.0	2.6	5.0	10.0
25	26.5	7.5	9.8	23.2	21.7	5.8	3.7	2.9	3.0	2.6	5.2	9.0
26	24.2	8.0	9.0	25.4	24.2	5.5	3.9	2.8	2.9	2.8	4.6	8.5
27	22.5	10.2	8.3	26.2	25.4	5.2	4.0	2.8	2.9	2.8	4.4	9.0
28	21.0	14.8	7.8	26.1	24.3	5.1	4.0	2.8	2.8	2.7	4.4	8.5
29	19.0	-----	7.5	25.0	22.7	5.3	4.2	2.7	2.8	2.7	4.3	7.7
30	17.5	-----	7.3	21.8	23.7	5.5	4.1	3.0	2.7	2.7	4.4	7.0
31	16.0	-----	10.8	-----	26.9	-----	4.1	3.1	-----	3.0	-----	6.7

DAILY RIVER STAGES.

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Mississippi River system (Red River Branch)—Ouachita River, Monroe, La.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.5	16.4	32.1	28.5	31.1	4.4	1.6	0.6	0.4	0.3	2.5	13.6
2	13.8	18.5	32.0	28.5	30.8	4.1	1.6	0.6	0.4	0.3	3.3	14.6
3	13.8	19.7	31.9	28.4	30.5	3.8	1.5	0.7	0.4	0.4	3.8	15.2
4	13.5	20.6	31.8	28.3	30.0	3.5	1.5	0.7	0.4	0.4	4.2	15.4
5	13.0	21.7	31.5	28.2	29.6	3.4	1.5	0.6	0.4	0.4	4.5	15.7
6	12.3	22.9	31.3	28.0	29.2	3.4	1.4	0.6	0.4	0.5	4.5	15.5
7	11.4	24.9	31.4	27.9	28.6	3.5	1.4	0.6	0.4	0.6	4.0	15.0
8	10.8	26.4	31.1	27.7	28.1	3.5	1.3	0.6	0.4	0.8	3.5	13.6
9	9.9	27.5	30.9	27.6	27.4	3.4	1.2	0.5	0.4	1.0	3.1	12.2
10	9.3	28.1	30.7	27.5	26.8	3.1	1.2	0.5	0.4	1.0	2.8	10.5
11	8.8	28.6	30.6	27.4	26.0	3.0	1.1	0.5	0.4	1.0	2.5	9.0
12	8.8	28.9	30.4	27.2	25.3	2.8	1.1	0.4	0.4	0.9	2.3	7.9
13	9.0	29.4	30.2	27.1	24.4	2.7	1.0	0.4	0.3	0.9	2.2	7.0
14	9.5	29.7	29.9	27.8	23.7	2.5	1.0	0.4	0.3	0.8	2.1	6.4
15	9.7	30.0	29.7	28.1	22.8	2.4	1.0	0.4	0.3	0.8	2.0	6.0
16	9.9	30.3	29.4	29.1	21.9	2.4	0.9	0.3	0.3	0.7	1.9	5.9
17	9.9	30.6	29.1	31.0	20.7	2.4	0.9	0.3	0.3	0.6	1.9	5.8
18	9.9	30.8	28.9	32.0	19.5	2.4	0.9	0.3	0.3	0.5	1.9	5.7
19	10.5	31.0	28.8	32.7	18.0	2.3	0.9	0.3	0.3	0.5	1.9	5.4
20	11.4	31.1	28.7	32.9	16.3	2.1	0.9	0.3	0.3	0.5	1.8	5.0
21	12.5	31.3	28.5	33.0	15.0	2.0	0.9	0.3	0.3	0.5	1.7	4.7
22	13.6	31.4	28.4	33.0	14.0	2.0	0.9	0.3	0.3	0.6	1.7	4.4
23	14.9	31.5	28.4	32.9	13.1	1.9	0.9	0.3	0.2	0.9	1.7	4.1
24	15.5	31.8	28.5	32.8	12.0	1.9	0.9	0.3	0.2	1.0	1.7	3.9
25	15.9	31.9	28.5	32.6	10.7	1.8	0.9	0.3	0.3	0.9	1.7	3.6
26	16.1	32.0	28.5	32.4	9.4	1.7	0.8	0.4	0.3	0.9	1.7	3.4
27	16.2	32.0	28.5	32.2	8.1	1.7	0.8	0.4	0.3	0.9	1.9	3.2
28	16.2	32.1	28.5	32.0	7.0	1.6	0.7	0.4	0.3	1.3	7.3	3.0
29	16.2	32.1	28.5	31.8	6.0	1.6	0.7	0.4	0.3	1.3	11.1	3.0
30	16.1	-----	28.5	31.5	5.2	1.6	0.7	0.4	0.3	1.5	12.7	2.9
31	16.0	-----	28.5	-----	4.8	-----	0.7	0.4	-----	1.9	-----	2.9

1897.

1	2.8	24.9	18.4	36.2	35.5	28.2	7.5	1.7	0.8	0.0	0.2	0.5
2	3.0	25.0	17.2	36.6	35.2	28.1	6.2	1.6	0.7	0.0	0.4	0.5
3	4.9	25.0	16.0	37.0	34.9	27.5	5.1	1.5	0.7	0.0	0.5	1.0
4	8.8	24.9	15.9	37.3	34.7	26.9	4.1	1.4	0.6	0.0	0.7	2.5
5	11.8	25.4	13.8	37.5	34.5	26.8	3.0	1.3	0.6	0.0	0.8	4.0
6	14.4	25.7	13.0	37.6	34.2	26.4	2.6	1.2	0.5	0.0	0.8	4.4
7	16.0	25.8	12.9	37.7	34.0	25.8	2.3	1.1	0.5	0.0	0.8	4.6
8	16.8	26.0	13.7	37.8	33.8	25.6	2.0	1.1	0.4	0.0	0.7	4.6
9	17.4	26.1	14.9	37.9	33.5	25.4	1.8	1.0	0.4	0.0	0.7	4.3
10	18.0	26.0	15.8	37.9	33.3	25.0	1.9	0.9	0.4	0.0	0.8	4.0
11	18.7	26.0	16.9	37.9	33.1	24.8	1.8	1.0	0.4	0.0	0.9	3.8
12	19.0	25.9	17.5	37.9	32.9	24.4	1.8	0.9	0.4	0.0	0.9	3.6
13	19.5	25.6	17.8	37.8	32.8	23.8	1.7	0.8	0.3	0.0	0.9	3.4
14	19.8	25.5	18.4	37.7	32.6	23.4	1.6	0.8	0.3	0.0	0.8	3.1
15	20.2	25.2	18.8	37.5	32.4	22.8	1.5	0.9	0.3	0.0	0.7	3.0
16	20.5	25.0	19.9	37.5	32.2	22.1	1.4	1.0	0.3	0.0	0.7	2.9
17	21.0	24.7	21.0	37.3	32.0	21.3	1.3	1.1	0.3	0.0	0.5	2.8
18	21.5	24.4	22.2	37.1	31.9	20.7	1.3	1.5	0.3	0.0	0.4	3.0
19	21.7	24.1	23.8	37.0	31.7	19.6	1.6	1.8	0.2	0.0	0.4	4.0
20	22.2	23.8	25.5	36.9	31.5	18.4	1.7	1.9	0.2	0.0	0.3	4.8
21	22.6	23.5	27.1	36.8	31.3	17.5	1.6	1.9	0.2	0.0	0.3	6.2
22	22.9	23.1	28.8	36.6	31.0	16.5	1.8	1.8	0.2	0.0	0.2	9.0
23	23.0	22.5	30.2	36.5	30.8	15.7	1.9	1.7	0.1	0.0	0.2	10.5
24	23.4	22.2	31.3	36.4	30.6	14.9	1.9	1.6	0.0	0.0	0.3	12.5
25	23.6	21.6	32.2	36.3	30.3	14.0	2.0	1.5	0.0	0.0	0.3	14.0
26	23.8	21.1	32.9	36.2	30.0	13.0	2.1	1.3	0.0	0.0	0.4	15.4
27	24.0	20.3	33.5	36.0	29.7	12.0	2.4	1.2	0.0	0.0	0.4	15.9
28	24.2	19.4	34.0	35.9	29.4	11.1	2.5	1.0	0.0	0.0	0.4	16.3
29	24.4	-----	34.6	35.8	29.0	10.2	2.5	1.0	0.0	0.0	0.5	16.5
30	24.6	-----	35.2	35.6	28.6	8.9	2.3	0.9	0.0	0.0	0.5	16.6
31	24.6	-----	35.7	-----	28.4	-----	2.0	0.8	-----	0.0	-----	16.4

Mississippi River system (Red River Branch)—Ouachita River, Monroe, La.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.0	34.0	31.9	15.8	19.9	19.4	12.8	6.3	1.9	4.5	10.4	13.6
2	15.5	34.4	31.5	16.4	20.0	19.3	12.0	6.0	1.8	5.4	9.4	13.6
3	14.4	34.6	31.5	17.0	19.8	19.2	11.3	5.8	1.7	6.2	8.3	13.5
4	13.0	34.9	30.7	17.5	19.5	19.0	10.5	5.0	1.6	6.3	7.1	13.4
5	11.8	35.1	30.2	17.9	19.0	18.8	9.8	4.5	1.5	6.2	6.2	13.0
6	10.5	35.3	29.6	18.0	18.8	18.6	8.9	4.0	1.5	6.0	5.3	12.8
7	9.6	35.4	29.2	18.1	19.0	17.6	8.2	3.8	1.4	5.9	4.8	12.7
8	9.1	35.5	28.5	18.1	19.2	16.5	7.7	3.6	1.3	6.1	4.2	12.6
9	10.2	35.5	28.1	17.9	19.5	15.2	7.0	3.6	1.2	6.7	4.0	12.6
10	11.4	35.5	27.6	17.6	19.5	14.0	6.5	3.8	1.1	7.5	8.4	12.6
11	12.7	35.8	26.8	17.4	19.6	13.2	6.2	4.3	1.0	7.8	11.5	12.5
12	13.5	35.9	26.2	16.1	19.8	13.2	5.8	4.5	0.9	7.8	13.8	12.3
13	14.4	35.9	25.6	15.5	19.9	12.5	5.4	4.4	0.8	7.6	16.4	12.0
14	14.8	35.8	24.8	15.0	20.0	12.4	5.0	4.0	0.8	7.3	17.7	11.6
15	15.8	35.5	24.2	14.4	20.1	12.2	4.7	3.9	0.8	7.0	18.6	11.0
16	16.6	35.5	23.4	13.9	20.2	12.3	4.3	4.1	0.9	6.6	19.0	10.6
17	17.2	35.4	22.7	13.6	20.4	13.4	4.0	4.4	0.9	6.2	19.3	10.1
18	17.8	35.3	22.0	13.5	20.5	13.7	3.7	4.4	1.0	6.0	19.4	9.8
19	19.3	35.2	21.4	13.8	20.6	14.3	3.4	4.1	1.1	5.7	19.4	10.5
20	21.5	34.9	20.9	13.9	20.7	14.5	3.1	3.7	1.1	5.4	19.1	11.0
21	22.7	34.5	20.5	14.0	20.8	14.8	2.8	3.3	1.5	8.0	18.8	11.0
22	24.3	34.3	20.1	14.2	20.8	15.0	2.6	2.9	1.6	9.1	18.3	11.4
23	27.0	34.0	19.8	16.1	20.6	14.7	2.4	2.6	1.8	10.3	18.5	11.6
24	28.8	33.7	19.3	16.9	20.3	14.4	2.2	2.2	2.2	11.4	17.5	12.0
25	30.4	33.3	18.8	17.5	19.9	13.9	2.3	2.1	2.7	12.4	16.4	12.5
26	31.4	33.0	18.2	18.1	19.6	13.2	5.3	2.2	2.8	12.9	15.5	12.6
27	32.0	32.6	17.4	18.7	19.5	12.6	5.6	2.2	2.9	13.2	14.8	12.8
28	32.6	32.3	16.9	19.3	19.5	12.8	6.0	2.2	3.3	13.1	14.3	12.7
29	33.0	-----	16.0	19.6	19.5	13.1	6.5	2.1	3.8	12.7	14.5	12.4
30	33.4	-----	15.9	19.8	19.6	13.2	6.6	2.0	4.2	12.0	14.0	11.8
31	33.8	-----	15.7	-----	19.5	-----	6.6	2.0	-----	11.3	-----	11.0

1899.

1	10.3	31.5	24.6	27.8	20.9	20.7	7.1	3.0	0.5	-----	-----	1.4
2	9.5	31.8	24.5	27.4	20.9	20.8	6.1	2.8	0.5	-----	-----	1.5
3	8.8	32.0	24.4	27.0	20.9	20.8	5.4	2.5	0.5	-----	-----	1.4
4	8.4	32.2	24.3	26.7	20.9	20.9	5.0	2.3	0.5	-----	-----	1.3
5	10.2	32.3	24.1	26.3	20.9	20.9	4.8	2.0	0.5	-----	-----	1.3
6	12.5	32.3	24.1	25.9	20.9	20.9	4.4	1.9	0.5	-----	-----	1.8
7	14.7	32.3	24.0	25.6	20.9	21.0	4.1	1.8	0.5	-----	-----	2.0
8	17.0	32.2	24.0	25.3	20.9	21.0	4.0	1.7	0.5	-----	-----	2.0
9	17.6	32.0	23.9	24.9	20.8	21.2	3.6	1.6	0.5	-----	-----	2.0
10	17.8	31.8	23.8	24.5	20.7	21.4	3.3	1.5	0.5	-----	-----	1.8
11	20.0	31.4	23.8	24.2	20.4	21.6	3.1	1.4	0.5	-----	-----	1.9
12	20.5	31.2	23.6	23.8	20.2	21.8	3.0	1.3	0.5	-----	-----	1.8
13	21.0	30.9	23.4	23.5	20.1	22.0	2.9	1.3	0.5	-----	-----	1.7
14	21.6	30.5	24.5	23.2	20.0	22.2	2.8	1.2	0.5	-----	-----	1.6
15	22.0	30.1	25.8	22.9	20.0	22.3	2.7	1.2	0.4	-----	-----	1.8
16	22.5	29.8	26.5	22.7	20.0	22.4	2.5	1.1	0.4	-----	-----	1.9
17	22.9	29.4	27.0	22.4	20.0	22.3	2.5	1.1	0.4	-----	-----	2.4
18	23.3	29.0	27.5	22.1	20.0	22.0	2.4	1.1	0.3	-----	-----	2.8
19	23.7	28.6	28.2	22.0	20.3	21.6	2.3	1.2	0.3	-----	-----	3.4
20	24.1	28.3	28.5	21.9	20.4	21.2	2.2	1.2	0.3	-----	-----	3.5
21	24.5	27.9	28.7	21.5	20.6	20.6	2.1	1.1	0.3	-----	-----	3.6
22	25.0	27.4	29.0	21.4	20.8	20.0	2.0	1.1	0.2	-----	-----	3.6
23	25.5	27.0	29.1	21.2	21.0	19.2	1.9	1.0	0.2	-----	-----	3.8
24	26.3	26.5	29.2	21.0	21.2	18.0	1.9	0.9	0.1	-----	-----	4.3
25	27.1	26.0	29.2	20.8	21.2	16.5	2.9	0.8	0.1	-----	-----	4.6
26	28.0	25.6	29.1	20.7	21.1	15.0	3.5	0.8	0.1	-----	-----	4.8
27	28.9	25.3	29.0	20.7	21.0	13.3	3.0	0.8	0.1	-----	-----	5.6
28	29.6	25.0	28.8	20.7	20.9	11.6	2.7	0.7	0.0	-----	0.3	5.9
29	30.4	-----	28.6	20.7	20.8	9.9	2.6	0.7	0.0	-----	0.5	5.9
30	30.8	-----	28.3	20.8	20.8	8.4	3.0	0.6	0.0	-----	1.4	5.9
31	31.3	-----	28.0	-----	20.7	-----	3.1	0.6	-----	-----	-----	5.9

DAILY RIVER STAGES.

193

Mississippi River system—Yazoo River, Yazoo City, Miss.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.6	8.7	19.6	19.5	16.6	4.0	-0.2	2.5	-1.6	-2.7	-1.3	-0.8
2	5.4	13.3	19.3	20.1	15.6	4.5	-0.2	3.5	-1.6	-2.7	-1.5	0.1
3	5.9	14.3	19.1	20.1	14.6	5.4	-0.2	4.0	-1.6	-2.7	-1.6	1.6
4	6.3	14.6	18.8	20.2	14.2	5.8	-0.3	4.3	-1.7	-2.7	-1.6	2.2
5	6.3	16.4	18.6	20.4	13.4	6.3	-0.3	4.4	-1.8	-2.7	-1.6	2.7
6	6.4	17.0	18.3	20.4	12.6	6.6	-0.3	4.4	-2.0	-2.7	-1.4	3.1
7	6.5	16.9	18.2	20.5	12.5	7.2	-0.3	4.3	-2.1	-2.7	-1.5	3.3
8	6.4	17.3	18.0	20.6	11.6	7.7	-0.4	4.2	-2.2	-2.7	-1.6	3.5
9	6.4	17.6	17.8	20.6	11.2	8.0	-0.5	4.2	-2.1	-2.7	-1.7	3.6
10	6.1	17.6	17.6	20.7	10.7	8.3	-0.5	4.0	-2.2	-2.7	-1.8	3.6
11	6.0	17.6	17.6	20.7	9.5	8.4	-0.5	3.9	-2.1	-2.7	-1.8	3.6
12	5.7	17.7	17.5	20.7	9.4	8.4	-0.5	3.7	-2.1	-2.7	-1.7	3.5
13	5.4	18.3	17.4	20.8	8.6	8.1	-0.4	3.5	-2.1	-2.7	-1.8	3.4
14	5.1	18.6	17.2	21.4	8.6	7.8	-0.3	3.3	-2.1	-2.7	-1.8	3.8
15	4.8	18.6	17.1	21.4	8.6	7.4	-0.3	3.2	-2.2	-2.8	-1.8	3.0
16	5.0	18.6	17.0	21.4	7.9	6.8	-0.4	2.9	-2.3	-2.8	-1.9	2.7
17	5.2	18.7	17.1	21.4	7.1	6.4	-0.5	2.5	-2.3	-2.8	-1.9	2.2
18	5.2	18.9	17.1	21.4	6.5	5.9	-0.6	2.1	-2.3	-2.7	-1.9	1.6
19	5.2	19.0	18.2	21.4	5.5	5.1	-0.8	1.5	-2.2	-2.7	-1.9	0.8
20	5.2	19.1	18.3	21.4	4.7	4.4	-1.0	0.7	-2.2	-2.8	-1.9	0.1
21	5.1	19.1	18.3	21.3	3.9	3.7	-1.1	0.0	-2.3	-2.8	-1.8	0.0
22	6.5	19.2	18.4	21.2	3.4	2.9	-1.2	-0.7	-2.4	-2.8	-1.8	-0.4
23	7.1	19.3	18.4	21.1	3.0	2.2	-1.2	-1.5	-2.5	-2.5	-1.8	-0.6
24	6.8	19.5	18.8	20.9	2.4	1.5	-1.3	-1.7	-2.6	-1.9	-1.6	-0.9
25	6.6	19.6	18.9	20.7	2.1	1.0	-1.2	-2.1	-2.7	-1.9	-1.6	-1.2
26	6.6	19.7	18.9	20.3	1.9	0.7	-1.2	-2.0	-2.7	-2.0	-1.6	-1.4
27	6.7	19.6	19.0	19.8	1.7	0.3	-1.2	-2.0	-2.7	-2.1	-1.6	-1.6
28	6.8	19.6	19.1	19.2	1.6	0.1	-1.0	-2.0	-2.7	-2.1	-1.3	-1.7
29	6.8	19.6	19.1	18.4	1.5	-0.1	-0.4	-2.0	-2.7	-2.0	-1.0	-1.7
30	6.9	-----	19.2	17.6	2.3	-0.2	0.3	-2.0	-2.7	-1.3	-1.0	-1.8
31	6.8	-----	19.4	-----	3.1	-----	1.3	-1.8	-----	-1.2	-----	-1.8

1897.

1	-1.8	8.4	14.0	26.4	31.5	27.5	0.7	0.3	-1.0	-2.6	-2.5	-2.1
2	-1.8	8.4	14.0	26.7	31.5	27.2	0.7	0.0	-1.3	-2.7	-2.5	-2.1
3	-1.0	8.3	14.1	26.9	31.4	26.7	0.5	-0.3	-1.5	-2.7	-2.5	0.2
4	0.7	8.3	14.1	27.1	31.3	26.5	0.3	-0.6	-1.6	-2.7	-2.3	0.6
5	0.5	9.0	14.1	27.4	31.2	26.2	0.2	-0.6	-1.7	-2.6	-2.2	3.5
6	0.6	9.2	15.3	27.5	31.1	25.7	0.1	-0.5	-1.8	-2.6	-2.0	4.8
7	1.0	9.3	15.6	27.8	31.0	25.2	-0.1	-0.2	-1.9	-2.6	-1.7	6.7
8	2.0	9.5	16.0	28.0	31.0	24.6	0.4	-0.4	-1.9	-2.6	-1.7	6.6
9	2.7	9.7	16.6	28.3	30.9	24.0	0.5	-0.6	-2.0	-2.6	-1.8	6.5
10	2.9	10.0	17.2	28.5	30.8	23.4	0.7	-0.7	-2.1	-2.6	-2.0	6.0
11	3.0	10.2	17.4	28.8	30.7	22.7	0.5	-0.5	-2.0	-2.5	-2.1	5.7
12	3.1	10.4	17.6	29.2	30.6	21.9	0.5	-0.3	-1.9	-2.4	-2.2	5.0
13	3.2	10.7	18.0	29.5	30.6	20.7	0.6	0.3	-2.0	-2.4	-2.3	4.4
14	3.3	10.8	18.4	29.8	30.4	19.5	0.5	0.3	-1.9	-2.4	-2.3	3.9
15	3.6	11.0	18.7	30.1	30.3	18.0	0.4	0.4	-2.1	-2.5	-2.4	3.4
16	3.6	11.2	19.6	30.3	30.2	16.6	0.4	0.7	-2.3	-2.5	-2.4	3.0
17	4.3	11.4	19.9	30.5	30.1	14.9	0.4	0.8	-2.4	-2.5	-2.3	2.6
18	4.5	11.6	20.4	30.7	30.0	12.9	0.3	1.3	-2.3	-2.5	-2.2	2.8
19	4.3	12.0	20.8	30.8	29.8	10.9	0.4	1.8	-2.2	-2.5	-2.4	4.3
20	4.6	12.3	21.4	30.9	29.7	8.6	0.6	2.2	-2.3	-2.5	-2.4	4.1
21	5.2	12.7	21.8	31.0	29.5	6.7	0.8	2.4	-2.4	-2.5	-2.2	4.5
22	5.8	13.0	22.7	31.1	29.3	5.2	1.4	2.2	-2.4	-2.5	-2.2	6.4
23	6.1	13.2	23.1	31.2	29.2	4.0	1.9	2.0	-2.5	-2.5	-2.1	9.4
24	6.3	13.5	23.3	31.3	29.0	3.2	2.4	1.7	-2.5	-2.6	-2.1	10.2
25	6.6	13.7	23.8	31.3	28.9	2.5	2.5	1.4	-2.6	-2.6	-2.1	10.9
26	6.8	13.8	24.2	31.4	28.7	2.0	2.5	1.0	-2.5	-2.6	-2.1	11.3
27	7.0	14.0	24.6	31.5	28.5	1.7	2.4	0.6	-2.4	-2.6	-2.1	11.5
28	7.2	14.0	24.9	31.5	28.3	1.4	2.0	0.3	-2.5	-2.6	-2.1	11.4
29	7.3	-----	25.2	31.5	28.1	1.1	1.6	-0.2	-2.6	-2.6	-2.0	11.3
30	7.5	-----	25.6	31.5	27.9	0.9	1.1	-0.5	-2.6	-2.6	-2.0	11.2
31	7.6	-----	26.0	-----	27.6	-----	0.7	-0.7	-----	-2.7	-----	11.1

Mississippi River system—Yazoo River, Yazoo City, Miss.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.0	21.8	20.7	14.9	24.0	18.9	3.5	4.9	1.1	0.3	0.7	0.3
2	10.8	22.0	20.2	15.5	23.8	17.4	3.0	5.4	0.7	0.3	0.5	0.4
3	10.3	22.2	19.8	16.0	23.8	17.3	2.5	5.3	0.5	0.4	0.2	0.5
4	9.9	22.3	19.3	16.5	23.6	17.1	2.3	5.1	0.3	0.4	0.0	0.8
5	9.4	22.5	18.8	17.2	23.3	16.9	2.0	5.1	0.1	0.4	-0.3	0.8
6	9.0	22.6	18.1	17.7	23.1	16.6	2.0	5.2	0.0	0.4	-0.5	0.8
7	8.5	22.8	17.4	18.2	22.8	16.2	2.1	5.0	0.3	0.8	-0.7	0.7
8	8.0	22.9	16.4	18.7	22.5	15.6	2.2	4.8	0.8	1.0	-0.9	0.5
9	7.5	23.0	15.6	19.1	22.1	15.1	2.2	4.6	0.4	1.5	-1.0	0.4
10	7.0	23.2	14.6	19.5	21.8	14.4	5.2	7.5	0.1	1.8	-1.0	0.3
11	6.5	23.5	13.4	19.9	21.4	13.6	4.8	8.3	-0.1	2.0	-0.7	0.2
12	5.9	23.6	12.2	20.3	21.0	12.6	4.1	8.2	-0.2	2.4	-0.7	0.4
13	5.5	23.6	11.3	20.6	20.6	11.7	3.8	8.4	-0.1	2.6	-0.5	0.6
14	5.2	23.7	10.6	21.0	20.2	11.0	3.5	8.6	-0.2	2.5	-0.2	0.9
15	7.9	23.7	10.5	21.3	19.8	10.3	3.2	8.8	-0.2	2.0	-0.3	1.1
16	9.5	23.8	10.3	21.6	19.4	9.5	2.9	8.8	-0.2	1.9	-0.3	1.2
17	10.4	23.8	10.2	21.9	19.0	8.9	2.7	8.7	-0.3	1.6	-0.3	1.4
18	11.3	23.8	10.3	22.1	18.6	8.0	2.7	8.5	-0.1	1.9	-0.2	1.5
19	14.0	23.7	10.3	22.5	18.3	7.3	2.8	8.2	0.0	1.5	-0.4	1.7
20	17.0	23.6	10.3	22.9	18.0	6.5	3.2	7.8	0.0	1.3	0.1	2.8
21	17.1	23.4	10.3	23.2	17.8	5.9	3.4	7.3	1.0	1.9	0.2	2.7
22	17.5	23.1	10.4	23.5	17.6	5.4	3.4	6.8	1.0	2.0	0.5	2.8
23	18.6	22.8	10.6	24.0	17.5	4.9	3.3	6.2	1.0	2.0	0.7	3.2
24	18.9	22.5	11.0	24.1	17.4	4.6	2.9	5.5	0.8	2.1	0.5	3.6
25	19.8	22.1	11.3	24.3	17.3	4.5	2.6	5.0	0.5	2.2	0.3	3.9
26	20.2	21.6	11.6	24.4	17.2	4.5	2.0	4.5	0.6	2.1	0.2	4.1
27	20.3	21.5	12.0	24.4	17.1	4.5	1.8	3.9	0.5	1.8	0.1	4.3
28	20.9	21.2	12.5	24.4	17.0	4.5	1.8	3.1	0.3	1.6	0.0	4.5
29	21.1	-----	13.3	24.3	16.9	4.6	2.4	2.7	0.1	1.5	0.3	4.5
30	21.4	-----	14.2	24.2	16.9	4.0	2.8	2.1	0.1	1.2	0.3	4.5
31	21.7	-----	14.5	-----	16.9	-----	3.7	1.5	-----	1.0	-----	4.5

1899.

1	4.5	19.8	17.3	25.2	23.1	11.6	1.7	6.7	-0.2	-2.3	-2.5	-1.7
2	4.2	19.7	17.2	25.3	22.7	11.1	1.2	6.9	-0.5	-2.4	-2.5	-1.6
3	3.9	19.7	17.1	25.3	22.2	11.0	0.7	7.0	-0.8	-2.4	-2.5	-1.5
4	3.5	19.8	17.1	25.4	21.7	10.8	0.3	7.0	-1.0	-2.5	-2.4	-1.3
5	5.3	19.8	17.1	25.5	21.2	10.7	0.0	6.7	-1.2	-2.5	-2.4	-1.2
6	10.1	20.0	17.2	25.6	20.7	10.3	0.0	6.4	-1.3	-2.5	-2.4	-1.2
7	14.5	20.0	17.3	25.7	20.1	9.8	0.5	6.1	-1.3	-2.5	-2.4	-1.2
8	14.5	19.8	17.5	25.7	19.6	9.2	0.5	5.7	-0.9	-2.5	-2.4	-1.2
9	15.0	19.5	17.7	25.8	19.1	8.7	0.4	5.2	-1.1	-2.5	-2.5	-1.3
10	15.4	19.3	18.0	25.8	18.6	7.9	0.5	4.4	-1.3	-2.5	-2.5	-1.4
11	15.5	18.7	18.2	25.8	18.1	7.3	0.5	3.6	-1.5	-2.6	-2.5	-1.0
12	15.5	18.3	18.4	25.8	17.6	6.8	0.4	2.7	-1.5	-2.6	-2.5	1.1
13	15.5	18.0	19.2	25.8	17.9	6.2	0.3	1.9	-1.6	-2.6	-2.5	1.6
14	15.6	17.6	21.5	25.8	17.3	5.8	0.1	1.2	-1.7	-2.6	-2.6	1.1
15	15.8	17.3	22.8	25.7	16.7	5.5	-0.1	0.7	-1.8	-2.6	-2.6	2.2
16	16.2	17.3	23.1	25.7	16.1	5.2	-0.2	0.3	-1.8	-2.6	-2.6	3.3
17	16.6	17.7	23.1	25.7	15.4	5.2	-0.3	0.0	-1.9	-2.6	-2.6	4.0
18	16.9	17.7	23.3	25.6	14.7	5.1	-0.3	0.0	-1.9	-2.6	-2.6	4.4
19	17.2	17.7	23.6	25.5	14.3	5.1	-0.2	0.3	-1.8	-2.6	-2.6	4.6
20	17.6	17.7	23.7	25.5	14.0	5.1	-0.2	0.5	-1.8	-2.6	-2.6	5.0
21	18.0	17.7	23.8	25.4	13.7	5.1	-0.0	0.8	-1.8	-2.6	-2.6	5.2
22	18.4	17.7	23.8	25.3	13.6	5.2	-0.1	1.0	-1.9	-2.6	-2.6	5.4
23	18.6	17.7	24.0	25.2	13.6	5.2	-0.3	1.2	-1.9	-2.6	-2.6	6.0
24	18.9	17.5	24.1	25.1	14.1	4.9	-0.4	1.5	-1.9	-2.6	-2.6	6.3
25	19.1	17.3	24.2	24.9	13.8	4.6	-0.5	1.6	-2.0	-2.6	-2.5	6.3
26	19.2	18.1	24.3	24.8	13.7	4.1	-0.2	1.5	-2.1	-2.6	-2.5	6.1
27	19.3	18.2	24.4	24.5	13.5	3.6	1.2	1.2	-2.1	-2.6	-2.4	6.0
28	19.4	17.6	24.6	24.3	13.3	3.2	4.2	0.9	-2.2	-2.6	-2.3	5.9
29	19.5	-----	24.9	23.9	12.9	2.8	5.1	0.7	-2.2	-2.5	-2.1	5.7
30	19.5	-----	25.0	23.5	12.4	2.1	5.7	0.1	-2.2	-2.5	-1.9	5.5
31	19.8	-----	25.2	-----	12.0	-----	6.2	0.1	-----	-2.5	-----	5.3

DAILY RIVER STAGES.

195

Mississippi River system—Red River, Arthur City, Tex.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.6	5.2	4.4	4.1	3.7	3.4	2.4	5.2	3.0	2.6	2.4	6.2
2	8.5	6.9	4.2	4.1	3.8	3.1	2.4	5.0	2.9	2.5	2.4	7.4
3	8.4	10.0	4.0	4.1	3.8	3.0	2.7	4.8	2.9	2.5	2.4	11.0
4	8.2	9.2	4.2	3.8	4.0	3.0	6.5	4.7	2.8	2.5	2.6	10.7
5	8.1	7.4	4.0	3.5	4.0	3.0	5.8	4.7	2.8	2.5	3.7	9.8
6	8.1	7.0	4.0	3.2	3.9	3.0	7.0	4.5	2.7	2.5	4.3	8.4
7	8.2	6.1	4.0	3.1	3.8	3.0	6.5	4.5	2.7	2.5	3.9	7.3
8	6.9	5.0	4.0	3.1	3.7	4.1	6.0	4.4	2.6	2.4	3.7	6.9
9	6.9	4.6	4.0	3.3	3.7	3.2	5.8	4.4	2.6	2.4	3.6	6.2
10	6.7	4.5	4.0	7.6	3.7	2.9	5.2	4.3	2.6	2.4	3.6	6.0
11	6.5	4.5	4.5	8.1	3.6	2.9	4.8	4.2	2.6	2.5	3.6	5.2
12	6.5	4.6	4.3	7.6	3.6	2.9	5.0	5.0	2.6	2.5	3.5	4.0
13	6.3	9.0	4.1	4.9	3.6	3.9	5.4	4.5	2.6	2.5	3.5	3.6
14	5.9	9.4	4.1	4.8	3.7	3.2	5.6	4.5	2.6	2.5	3.5	3.4
15	5.6	9.6	4.1	4.7	3.6	2.9	5.0	4.4	2.5	2.5	3.3	3.0
16	5.4	9.5	4.1	4.4	3.5	2.9	4.8	4.3	2.5	2.5	3.2	3.0
17	5.1	9.3	4.0	4.2	3.5	2.8	4.6	4.2	2.5	2.4	3.2	2.9
18	5.0	8.6	4.0	4.1	3.5	2.8	4.0	4.0	2.5	2.4	3.2	2.8
19	4.9	7.9	6.4	4.0	3.5	2.7	4.0	3.5	2.5	2.4	3.2	2.8
20	4.7	6.4	6.7	4.0	3.4	2.7	4.0	3.4	2.5	2.4	3.1	2.8
21	4.6	5.2	6.5	4.0	3.4	2.7	4.0	3.4	2.5	2.4	3.1	2.8
22	4.5	4.9	6.5	3.8	3.4	2.7	4.0	3.3	2.4	2.4	3.1	2.8
23	4.5	4.6	5.2	3.7	3.9	2.6	5.5	3.3	2.4	2.5	3.0	2.7
24	4.4	5.0	4.6	3.7	4.4	2.6	5.0	3.3	2.4	2.4	3.0	2.7
25	4.2	4.9	4.5	3.7	4.9	2.5	5.6	3.3	2.5	2.3	3.0	2.7
26	4.2	4.8	4.5	3.5	5.0	2.5	9.6	3.3	3.0	2.3	3.2	2.7
27	4.2	4.7	4.3	3.5	5.4	2.5	8.3	3.3	3.1	2.3	6.8	2.7
28	4.2	4.5	4.3	3.5	5.8	2.4	7.0	3.3	2.9	2.2	11.6	2.6
29	4.2	4.4	4.3	3.6	4.9	2.4	6.4	3.0	2.6	2.2	8.2	2.6
30	4.1	-----	4.2	3.5	4.1	2.4	5.8	3.0	2.6	2.3	7.3	2.6
31	4.9	-----	4.2	-----	3.6	-----	5.6	3.0	-----	2.4	-----	2.6

1897.

1	2.6	3.5	3.1	9.7	13.1	7.2	6.2	6.7	3.8	4.1	2.5	2.1
2	4.4	3.4	3.1	9.2	11.4	7.6	5.7	6.2	3.7	3.9	2.4	2.1
3	6.7	3.4	3.0	9.0	9.8	7.4	5.0	5.9	3.6	3.8	2.3	2.1
4	20.6	3.3	3.0	7.4	7.7	6.9	4.7	5.6	3.6	3.7	2.3	2.3
5	16.1	3.7	3.0	7.2	9.3	6.6	4.1	5.2	3.5	3.5	2.3	2.4
6	10.3	4.2	3.3	7.0	8.5	7.4	3.9	4.9	3.4	3.5	2.3	2.5
7	8.1	3.9	4.1	6.3	6.2	8.7	3.8	4.7	3.3	3.4	2.3	2.3
8	7.4	3.7	4.8	6.1	5.9	6.7	3.6	4.6	3.3	3.4	2.3	2.2
9	6.7	3.6	4.3	6.0	5.5	5.8	6.1	4.5	3.3	3.2	2.3	2.2
10	5.9	3.6	4.0	8.1	5.2	4.8	5.2	4.8	3.5	3.2	2.3	2.2
11	5.3	3.5	4.1	8.7	8.4	4.3	6.4	4.9	4.1	3.1	2.2	2.2
12	4.8	3.5	4.1	8.9	20.3	3.9	6.2	5.1	4.4	3.1	2.2	2.2
13	4.8	3.4	5.7	8.5	20.6	3.8	6.0	4.9	4.9	3.0	2.2	2.2
14	4.7	3.4	6.4	7.1	21.9	3.5	5.5	4.7	4.5	3.0	2.2	2.1
15	4.7	3.4	7.3	6.5	20.4	11.4	5.3	4.9	4.3	2.9	2.2	2.1
16	4.9	3.4	7.3	7.4	17.8	6.5	5.0	5.8	4.0	2.9	2.2	2.1
17	5.1	3.3	9.7	7.6	20.9	5.9	4.9	6.1	4.5	2.9	2.2	2.1
18	5.4	3.3	11.6	6.3	17.4	5.8	5.8	6.3	4.2	2.9	2.1	2.1
19	5.3	3.3	17.0	4.8	15.6	14.0	6.5	6.8	4.8	2.9	2.1	3.2
20	5.4	3.3	17.2	4.5	17.2	12.8	9.0	7.1	4.6	2.7	2.1	3.6
21	5.4	3.3	16.0	4.3	14.6	11.9	11.8	6.9	4.1	2.7	2.5	3.4
22	5.1	3.3	14.9	4.0	13.2	11.4	8.7	5.4	3.9	2.6	2.2	3.2
23	4.8	3.2	14.7	3.9	10.6	10.2	13.4	4.8	3.7	2.6	2.2	3.1
24	4.3	3.2	10.7	3.8	8.9	9.0	12.7	4.6	5.2	2.6	2.2	3.0
25	4.1	3.2	8.9	3.7	10.1	7.8	11.6	4.5	5.6	2.5	2.2	2.9
26	4.0	3.2	6.6	3.5	10.9	7.0	9.6	4.8	5.2	2.5	2.2	2.9
27	3.9	3.2	5.7	3.6	9.7	9.4	8.5	4.7	4.9	2.5	2.1	2.8
28	3.7	3.1	4.9	6.2	7.5	8.8	8.3	4.3	4.7	2.4	2.1	2.8
29	3.6	-----	6.7	6.5	5.9	8.0	8.2	4.2	4.6	2.4	2.1	2.8
30	3.6	-----	21.4	9.3	6.3	6.6	7.3	4.0	4.3	2.4	2.1	2.6
31	3.5	-----	15.4	-----	5.8	-----	7.1	3.9	-----	-----	-----	2.6

Mississippi River system—Red River, Arthur City, Tex.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		3.7	4.2	16.1	4.7	6.3	11.4	6.1	5.5	4.5	4.7	4.8
2		3.3	4.1	13.8	4.3	5.6	11.1	8.3	5.8	4.4	4.7	4.8
3		3.1	3.9	11.9	4.0	7.5	9.9	8.8	5.6	4.4	4.7	4.8
4		3.0	3.8	9.0	4.4	7.8	8.7	8.6	5.5	4.4	4.6	4.7
5		3.0	3.7	8.1	8.1	8.2	8.3	8.3	5.4	4.4	4.6	4.6
6		4.5	4.2	6.5	9.0	8.5	7.1	13.7	5.4	4.4	4.6	4.6
7		4.3	4.0	5.2	16.5	8.7	6.7	12.0	5.6	4.4	4.6	4.6
8		4.0	3.8	4.6	21.1	7.3	6.1	11.2	5.2	4.5	4.6	4.6
9		3.7	3.7	4.0	20.7	6.8	5.8	11.2	5.0	4.5	4.6	4.6
10		3.5	3.7	3.8	17.2	6.3	5.6	11.0	5.0	4.5	4.6	4.5
11		3.7	3.6	3.7	15.4	7.1	5.4	9.5	5.0	4.5	4.5	4.5
12		3.2	4.2	3.6	12.8	7.9	6.7	9.0	4.9	4.5	4.5	4.5
13		4.8	11.2	3.5	9.9	8.4	6.4	8.5	4.8	4.5	4.5	4.5
14		6.3	13.0	3.5	9.7	9.6	5.6	8.0	4.8	4.6	4.5	4.4
15		6.7	12.4	3.4	9.4	9.1	5.6	8.0	4.8	4.6	4.4	4.4
16		7.5	11.4	3.3	9.0	12.5	5.3	7.5	4.8	4.7	4.4	4.3
17		8.7	12.8	3.3	8.8	12.1	5.7	7.0	4.8	4.7	4.4	4.3
18		7.5	12.9	3.5	8.4	10.9	6.6	7.7	4.6	4.7	4.4	4.4
19		7.1	12.5	3.4	7.9	10.2	6.8	7.6	4.6	4.7	4.3	4.5
20		6.6	12.0	3.3	7.4	9.2	7.3	6.0	4.6	4.7	4.3	7.9
21		6.2	11.2	5.3	7.8	8.8	7.5	5.6	4.6	4.7	4.3	8.3
22		6.0	10.7	7.6	13.9	8.3	7.2	5.6	4.6	4.7	4.3	8.0
23		4.3	8.8	5.7	15.2	11.1	6.7	5.6	4.5	4.7	6.6	7.8
24		3.8	7.8	6.8	14.1	10.4	6.6	5.5	4.5	4.7	5.6	6.5
25		3.7	5.9	8.5	11.8	9.8	6.3	5.7	4.5	4.7	5.2	6.0
26		3.5	8.3	9.6	9.8	9.6	6.1	5.0	4.5	4.7	5.0	5.2
27		4.7	10.0	6.6	8.7	9.2	5.8	5.6	4.5	4.7	5.0	4.9
28		4.5	12.0	6.0	7.8	9.6	7.6	5.6	4.5	4.7	4.9	4.8
29			13.4	5.6	7.3	10.2	7.4	5.6	4.5	4.7	4.9	4.6
30			13.8	5.1	6.5	10.8	7.1	5.9	4.5	4.7	4.9	4.6
31			17.4		6.9		6.9	6.0		4.7		4.5

1899.

1	4.5	4.9	6.0	4.5	6.5	11.4	8.8	10.5	6.1	6.4	10.7	12.0
2	4.5	4.9	5.9	4.5	6.4	10.6	8.8	10.0	6.1	6.0	9.9	11.0
3	4.5	4.9	4.9	4.5	6.1	10.1	9.0	9.0	6.1	6.0	9.4	10.0
4	4.3	4.8	4.9	4.5	5.6	10.1	9.5	8.5	6.1	5.9	9.0	9.0
5	4.3	4.8	4.8	4.5	5.3	9.5	9.0	8.5	6.0	5.8	8.7	
6	4.9	4.7	4.5	4.5	5.0	9.1	9.0	8.2	5.9	5.8	8.3	
7	5.4	4.7	4.3	4.5	4.9	9.0	8.5	8.0	5.8	5.8	8.1	
8	5.6	4.7	4.4	4.5	7.5	8.3	12.0	8.0	5.7	5.7	7.9	
9	5.9	4.6	4.4	4.5	8.9	12.1	11.5	8.0	5.6	5.6	7.3	
10	6.0	4.6	4.4	4.5	9.7	12.1	11.0	7.6	5.6	5.6	7.0	
11	6.3	4.6	4.4	4.5	13.4	11.3	10.9	7.6	5.6	5.6	6.9	
12	6.0	4.6	4.4	4.5	13.0	11.0	10.0	7.6	5.5	5.5	6.9	
13	6.5	4.6	4.5	4.5	13.0	10.9	9.5	7.6	5.5	5.5	6.8	
14	7.0	4.5	4.5	4.5	12.5	15.0	9.0	7.6	5.5	5.4	6.8	
15	8.1	4.5	4.5	4.8	14.8	13.0	11.0	7.6	5.4	5.3	6.6	
16	8.9	4.5	4.5	4.5	13.5	12.0	10.0	7.6	5.4	5.2	6.3	
17	8.0	4.5	4.5	4.5	11.5	12.8	9.0	7.6	7.6	5.0	6.1	
18	7.2	4.5	4.5	4.5	10.5	15.5	9.0	7.6	7.6	4.9	5.9	
19	7.0	4.5	4.5	4.5	9.7	17.4	9.0	7.0	7.7	4.9	5.7	
20	6.8	4.5	4.5	4.5	8.9	16.5	8.5	6.6	7.1	4.9	5.5	
21	6.6	4.5	6.0	4.5	8.5	14.5	16.5	6.3	7.1	4.9	12.4	
22	6.5	4.5	6.1	6.8	8.0	12.5	19.0	6.3	7.1	4.9	20.8	
23	6.3	4.5	4.5	9.5	7.9	11.0	21.5	6.2	7.0	4.9	24.0	
24	6.1	4.5	4.5	10.6	9.8	9.5	22.0	6.2	8.5	4.8	28.0	
25	5.6	4.5	4.5	10.0	9.7	9.4	14.5	6.2	7.8	4.8	28.6	
26	5.6	5.0	4.5	9.9	8.8	9.0	14.0	6.2	7.5	4.8	21.0	
27	5.4	5.0	4.5	9.5	7.8	8.8	18.0	6.2	7.2	5.0	17.5	
28	5.2	5.0	4.5	7.8	7.8	8.8	16.5	6.2	7.1	5.2	15.0	
29	5.2		4.5	6.5	11.3	8.9	14.0	6.2	6.8	6.0	14.0	
30	5.0		4.5	6.5	11.7	8.9	11.5	6.1	6.6	13.7	13.0	
31	5.0		4.5		11.9		10.5	6.1		12.4		

DAILY RIVER STAGES.

197

Mississippi River system—Red River, Fulton, Ark.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.8	9.9	10.7	9.4	4.1	3.8	1.4	5.0	0.4	1.0	0.4	11.7
2	19.9	10.9	13.6	10.7	4.0	3.7	1.4	4.3	0.4	0.9	0.9	10.7
3	17.2	12.5	15.0	12.9	3.9	3.4	1.4	3.8	0.4	0.8	1.4	9.9
4	14.5	16.8	14.7	14.3	3.8	3.2	1.4	3.6	0.4	0.5	1.3	6.7
5	12.0	18.2	12.8	15.5	3.8	3.1	1.3	3.4	0.4	0.5	1.2	4.5
6	10.0	20.1	10.9	14.7	3.4	3.0	1.2	3.1	0.4	0.4	0.9	5.3
7	9.2	20.5	10.0	13.0	3.3	2.9	1.2	2.7	0.4	0.3	3.5	5.8
8	9.0	19.2	9.2	10.9	3.2	2.8	1.1	2.4	0.4	0.3	3.5	5.7
9	8.9	17.6	9.3	8.7	3.0	2.8	2.3	2.2	0.4	0.2	3.0	5.4
10	8.8	16.7	9.1	7.6	2.9	2.6	3.8	2.0	0.4	0.2	3.5	4.9
11	9.0	13.5	8.7	6.8	2.8	2.5	4.2	1.8	0.4	0.2	3.5	4.8
12	8.5	10.8	7.9	7.0	2.7	2.4	4.0	1.7	0.4	0.1	3.3	4.5
13	8.1	10.9	7.6	9.1	2.6	2.3	3.7	1.6	0.4	0.1	3.0	4.3
14	7.7	13.3	7.7	9.4	3.0	2.1	3.4	1.5	0.4	0.1	2.6	4.0
15	7.4	16.9	8.4	8.7	5.7	2.0	3.1	1.4	0.3	0.1	2.4	3.5
16	7.6	19.6	8.7	7.8	7.9	1.7	2.9	1.0	0.3	0.1	2.2	3.1
17	8.8	20.4	8.9	7.3	8.0	1.8	2.9	0.9	0.2	0.1	2.1	2.8
18	9.4	19.7	10.9	6.7	9.3	1.7	3.2	0.7	0.2	0.1	1.9	2.6
19	9.3	18.3	12.0	6.2	11.2	1.5	3.2	0.7	0.2	0.1	1.6	2.5
20	9.0	16.5	13.0	5.9	12.3	1.4	3.0	0.7	0.1	0.1	1.4	2.3
21	8.5	14.7	15.4	5.4	13.2	1.4	2.8	0.9	0.1	0.1	1.4	2.2
22	8.1	11.8	17.0	4.8	13.7	1.3	2.6	0.9	0.1	0.1	1.4	2.2
23	7.6	9.7	17.4	4.5	12.6	1.2	2.3	0.7	0.1	0.1	1.3	1.9
24	7.1	8.2	17.0	4.8	10.0	1.1	2.1	0.7	0.1	0.4	1.2	1.8
25	7.4	8.2	15.7	4.7	7.4	1.0	2.0	0.7	0.1	0.4	1.2	1.7
26	7.6	8.5	14.5	4.5	6.0	1.0	1.8	0.7	0.5	0.4	1.0	1.6
27	7.9	8.8	13.8	4.6	5.0	1.0	1.8	0.7	0.7	0.4	1.5	1.5
28	7.8	8.8	12.8	4.5	4.6	1.2	3.7	0.7	0.8	0.5	4.8	1.4
29	7.4	8.6	11.4	4.3	4.3	1.3	5.1	0.7	0.8	0.5	8.7	1.3
30	7.0	-----	9.8	4.2	4.0	1.4	6.1	0.6	0.9	0.8	9.8	1.2
31	8.2	-----	9.2	-----	-----	-----	5.7	0.5	-----	0.4	-----	1.2

1897.

1	1.2	5.1	2.8	25.9	7.0	10.0	7.1	6.0	3.2	3.0	1.4	1.0
2	1.2	5.1	2.7	25.9	8.5	9.6	6.8	5.9	2.9	3.7	1.4	1.0
3	2.2	4.8	2.6	24.8	10.2	9.2	6.4	5.6	2.8	3.4	1.4	1.0
4	5.0	4.5	2.6	24.2	10.9	10.9	6.1	5.2	2.5	2.9	1.4	1.0
5	13.0	4.0	2.6	23.7	9.9	12.0	6.0	4.8	2.4	2.6	1.4	1.0
6	20.8	3.7	3.6	22.8	8.9	13.0	5.6	4.5	2.4	2.5	1.4	1.0
7	21.8	3.5	7.6	21.9	8.1	13.8	5.4	4.1	2.2	2.3	1.4	1.0
8	20.6	3.5	10.4	20.9	8.1	14.4	5.1	3.7	2.2	2.1	1.4	1.0
9	19.8	4.0	12.7	20.0	7.8	14.3	4.9	3.7	2.2	2.1	1.4	1.0
10	18.6	5.0	14.0	17.4	7.3	13.7	4.6	3.6	2.2	2.0	1.3	1.0
11	16.9	5.2	13.9	16.8	6.8	12.8	4.6	3.5	2.2	2.2	1.3	1.3
12	14.7	4.8	12.2	17.8	7.1	11.8	4.8	3.8	2.2	2.0	1.2	1.3
13	12.3	4.5	11.8	17.7	15.4	10.2	4.9	3.8	2.2	1.9	1.2	1.2
14	9.9	4.2	12.6	16.9	22.2	9.2	4.8	3.5	2.6	1.8	1.2	1.2
15	8.3	4.0	13.6	15.6	24.7	8.7	4.6	3.4	3.0	1.8	1.2	1.2
16	7.6	3.8	14.0	15.0	25.6	8.5	4.3	3.4	2.8	1.6	1.2	1.2
17	7.3	3.5	14.1	14.7	26.0	12.7	4.2	3.3	2.4	1.6	1.4	1.2
18	8.5	3.4	14.8	14.7	25.9	16.4	4.0	3.3	2.4	1.6	1.2	1.2
19	10.4	3.4	17.8	14.2	25.6	16.2	4.0	3.3	2.4	1.6	1.2	1.4
20	11.3	3.3	23.2	12.6	24.5	15.9	3.9	4.0	2.3	1.8	1.2	1.5
21	10.8	3.2	26.7	10.9	23.3	16.8	3.9	4.5	2.3	1.7	1.1	1.9
22	9.6	3.1	28.4	9.6	22.0	16.5	3.9	4.4	2.2	1.6	1.1	2.9
23	8.3	3.1	28.6	8.6	19.2	15.4	4.9	4.3	2.6	1.6	1.1	3.3
24	7.5	2.9	28.5	7.9	17.8	13.4	6.4	4.5	2.6	1.6	1.0	3.4
25	6.9	2.9	27.9	7.4	15.6	11.0	6.5	4.4	2.4	1.5	1.0	4.1
26	6.5	2.8	26.8	7.0	13.7	10.4	10.2	4.0	2.2	1.4	1.0	4.5
27	6.2	2.8	25.9	6.8	12.6	9.2	11.4	3.9	2.2	1.4	1.0	4.5
28	6.0	2.7	24.5	6.6	12.7	8.1	10.0	3.3	2.8	1.4	1.0	4.1
29	5.8	-----	22.4	6.6	13.0	7.6	8.8	3.2	2.9	1.4	1.0	3.9
30	5.4	-----	20.9	6.5	11.8	7.5	7.6	3.2	2.8	1.4	1.0	4.2
31	5.2	-----	23.6	-----	10.7	-----	6.5	3.2	-----	1.5	-----	4.6

Mississippi River system—Red River, Fulton, Ark.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.8	6.0	5.1	22.9	8.1	10.7	13.2	6.9	4.0	3.2	2.9	5.7
2	4.3	5.6	4.8	22.8	7.4	9.8	12.0	7.1	4.0	3.1	2.8	5.2
3	3.9	4.9	4.4	22.0	7.2	9.4	11.0	6.5	4.0	2.9	2.7	4.8
4	3.4	4.4	4.0	21.9	11.0	9.3	10.0	6.4	4.1	2.8	2.6	4.4
5	3.1	4.4	4.0	19.4	14.7	9.0	9.2	8.5	4.0	2.8	2.5	4.1
6	3.0	4.3	3.7	17.2	18.0	9.0	8.3	9.3	4.1	2.7	2.4	3.9
7	3.0	4.1	3.6	14.9	19.6	9.3	7.2	9.5	4.2	2.7	2.3	3.7
8	3.0	3.9	3.3	12.8	23.6	10.5	6.6	9.1	4.2	2.7	2.3	3.6
9	2.9	3.7	3.2	10.7	26.4	11.0	6.4	9.9	4.2	4.9	2.5	3.5
10	2.9	3.6	3.2	9.6	27.7	10.7	6.1	11.9	4.1	5.4	3.2	3.3
11	2.5	3.9	3.0	9.0	27.9	10.2	5.9	12.8	4.0	4.7	3.5	3.2
12	3.0	4.4	2.9	8.5	27.3	9.6	5.7	11.8	4.0	4.1	4.1	3.1
13	3.5	5.3	2.8	7.6	26.6	9.0	5.6	10.7	4.2	4.0	4.0	3.1
14	3.9	6.0	5.8	7.0	25.7	13.0	5.6	9.6	9.5	3.9	3.7	3.1
15	5.4	6.2	14.6	6.6	24.8	14.8	7.0	8.7	11.9	3.7	3.4	3.1
16	5.8	6.2	20.0	6.3	23.7	15.6	7.8	8.3	13.3	3.5	3.1	3.0
17	5.8	9.9	21.9	6.0	21.9	16.4	7.5	7.7	11.8	3.4	2.9	3.0
18	6.0	10.4	22.5	5.8	19.7	18.5	6.9	7.2	8.8	3.2	2.8	3.0
19	6.0	9.4	22.3	5.6	17.5	18.2	6.3	6.8	6.6	3.0	2.6	3.1
20	7.9	8.8	21.6	5.4	15.6	16.6	6.3	6.5	5.5	3.2	2.5	3.3
21	9.3	8.7	20.8	5.1	13.8	15.3	6.3	6.2	4.7	3.3	2.4	3.7
22	10.4	8.7	19.4	5.0	13.9	13.6	6.3	6.0	4.4	3.4	2.4	7.3
23	12.4	8.3	17.4	5.9	18.4	12.6	6.2	5.9	4.1	4.6	4.2	11.6
24	13.8	7.8	15.4	7.6	20.7	13.5	6.0	5.5	4.0	4.5	7.9	12.6
25	13.7	6.9	12.8	9.6	21.4	13.7	5.7	5.0	4.0	4.1	7.5	11.5
26	12.9	6.0	10.4	10.9	21.1	12.5	5.2	4.6	3.9	3.8	8.4	10.2
27	11.8	5.8	10.4	13.0	20.1	11.1	5.0	4.2	3.7	3.7	7.9	7.5
28	10.6	5.5	10.0	13.3	18.6	10.7	4.9	4.0	3.5	3.6	7.1	7.0
29	9.5	.....	14.4	12.3	16.7	11.0	4.8	4.0	3.3	3.5	6.6	6.2
30	8.0	.....	19.0	10.1	14.7	13.4	4.7	4.0	3.2	3.3	6.2	5.8
31	6.8	.....	21.6	.....	12.6	.....	5.4	4.0	.....	3.1	.....	5.7

1899.

1	5.4	5.8	6.5	4.3	14.6	20.9	8.3	15.7	3.8	5.6	8.5	21.5
2	5.2	5.7	7.5	4.1	12.6	21.8	7.8	13.7	3.8	5.3	11.9	20.0
3	4.6	5.5	9.2	3.9	10.0	21.2	7.0	12.4	3.7	5.0	11.0	18.2
4	4.6	5.4	9.3	3.8	8.8	19.8	6.8	11.0	3.6	4.6	10.0	16.4
5	4.6	5.3	8.5	3.6	8.0	18.0	6.5	9.6	3.5	4.3	9.0	14.5
6	5.0	5.2	7.5	3.5	10.0	16.2	6.5	8.0	3.4	4.1	8.5	13.0
7	7.3	5.0	6.8	3.7	11.1	14.1	6.4	7.0	3.4	4.0	8.0	12.0
8	10.3	4.9	6.0	4.5	10.5	11.9	6.5	6.3	3.3	3.9	7.5	11.0
9	12.7	4.8	5.5	4.9	9.0	10.4	6.6	6.0	3.2	3.7	7.0	10.0
10	12.7	4.6	5.1	4.6	8.3	9.6	6.9	5.8	3.2	3.6	7.0	10.0
11	12.7	4.5	4.9	4.3	8.5	12.0	9.0	5.7	3.1	3.5	6.5	9.9
12	12.8	4.2	4.6	4.0	10.9	14.5	9.4	5.6	3.1	3.4	6.4	9.5
13	15.0	4.0	4.4	3.8	15.8	14.3	10.0	5.5	3.0	3.3	6.0	9.5
14	17.8	3.8	4.3	3.7	18.5	13.8	9.8	5.5	3.0	3.2	5.5	11.9
15	20.0	3.5	4.1	3.4	19.8	13.8	9.3	5.4	3.0	3.1	5.0	16.0
16	22.0	3.4	4.0	3.4	20.3	16.8	9.4	5.2	2.9	3.0	4.5	16.4
17	22.7	3.3	3.9	3.6	21.5	16.7	11.0	5.2	2.9	3.0	4.5	15.5
18	22.1	3.3	3.8	4.6	20.6	14.9	10.4	5.1	2.8	2.9	4.0	14.5
19	21.6	3.4	3.8	5.4	18.8	14.6	9.3	5.0	2.8	2.9	4.0	13.2
20	20.4	3.6	3.8	5.7	16.6	18.4	8.5	5.0	2.7	2.9	3.9	12.5
21	19.4	3.5	4.0	6.0	14.5	20.0	7.0	4.9	2.7	2.8	3.8	11.6
22	17.0	3.5	4.3	6.9	12.8	19.9	12.7	4.8	5.6	2.8	5.2	11.6
23	15.0	3.4	5.5	8.9	11.0	19.0	17.9	4.8	5.6	2.7	17.5	12.0
24	12.8	3.4	6.7	11.8	9.9	17.0	20.9	4.6	5.5	2.6	21.4	13.8
25	9.5	3.4	6.5	17.9	9.6	14.6	22.7	4.5	5.3	2.5	23.8	14.4
26	8.0	3.4	5.8	20.0	10.0	12.5	22.6	4.5	5.1	2.5	25.2	14.4
27	7.0	3.9	4.8	20.3	10.9	10.9	20.9	4.3	6.2	2.5	26.0	14.0
28	6.5	5.0	4.8	19.5	10.7	10.0	18.8	4.2	6.6	2.5	26.0	14.0
29	6.4	.....	4.7	18.5	10.4	9.3	19.4	4.1	6.3	2.7	25.2	13.2
30	6.2	4.6	16.9	12.0	9.0	19.4	4.0	6.0	2.6	23.5	12.3
31	6.0	4.5	17.9	17.5	3.9	2.6	11.0

DAILY RIVER STAGES.

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Mississippi River system—Red River, Shreveport, La.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.
1	9.5	14.6	16.0	12.1	4.5	3.8	-1.3	-0.4	-2.7	-3.0	-2.7	-1.9
2	9.8	15.9	15.5	11.5	4.3	3.2	-1.4	0.8	-2.8	-2.9	-2.6	0.9
3	10.3	15.4	15.2	11.3	4.0	2.9	-1.5	1.0	-2.8	-2.9	-2.7	2.8
4	10.8	14.5	15.0	11.2	3.9	2.6	-1.5	0.8	-2.8	-2.8	-2.7	3.9
5	11.1	14.0	14.6	11.3	3.7	2.3	-1.6	0.5	-2.8	-2.9	-2.6	4.0
6	11.2	14.4	14.8	11.3	3.5	2.0	-1.6	0.2	-2.9	-2.8	-2.6	3.5
7	11.2	14.9	15.6	11.4	3.3	1.8	-1.7	-0.1	-2.9	-2.9	-2.5	3.0
8	11.1	15.4	15.9	11.3	3.0	1.6	-1.7	-0.2	-2.9	-3.0	-2.2	2.5
9	10.7	15.7	15.5	11.3	2.7	1.3	-1.8	-0.4	-2.9	-3.1	-2.1	2.1
10	10.4	15.7	14.9	11.1	2.4	1.2	-1.8	-0.5	-3.0	-3.2	-2.2	2.0
11	10.0	15.8	14.6	10.8	2.2	0.9	-1.8	-0.8	-3.0	-3.2	-1.3	1.9
12	9.6	15.8	14.3	10.2	2.0	0.7	-1.8	-1.1	-3.0	-3.2	-0.7	1.8
13	9.3	16.0	14.0	10.5	1.7	0.6	-1.5	-1.3	-3.0	-3.3	-0.6	1.5
14	8.9	16.1	13.5	10.5	1.8	0.4	-0.6	-1.4	-3.1	-3.3	-0.4	1.3
15	8.7	16.1	13.0	10.5	1.8	0.1	-0.1	-1.6	-3.1	-3.3	-0.3	1.0
16	9.2	16.2	12.8	10.2	1.7	-0.1	0.0	-1.7	-3.1	-3.3	-0.3	0.8
17	9.3	16.1	12.5	10.0	1.6	-0.2	-0.1	-1.8	-3.1	-3.4	-0.5	0.4
18	9.2	16.1	12.2	9.7	2.4	-0.4	-0.3	-1.9	-3.5	-3.4	-0.7	0.2
19	9.1	16.3	12.2	9.4	3.5	-0.5	-0.5	-2.0	-3.2	-3.4	-0.8	0.0
20	8.9	16.6	12.3	9.1	4.0	-0.7	-0.6	-2.1	-3.2	-3.4	-1.1	-0.3
21	8.9	16.8	12.3	8.7	5.6	-0.8	-0.7	-2.1	-3.2	-3.1	-1.3	-0.5
22	8.8	17.1	19.3	8.3	7.0	-0.8	-0.6	-2.2	-3.2	-3.3	-1.4	-0.7
23	8.7	17.2	12.4	7.7	7.6	-0.8	-0.6	-2.3	-3.3	-3.2	-1.6	-0.9
24	8.5	17.4	12.5	7.2	7.9	-0.9	-0.7	-2.4	-3.3	-3.2	-1.8	-1.0
25	7.9	17.4	12.5	6.8	8.0	-0.9	-0.8	-2.4	-3.3	-3.2	-1.9	-1.2
26	7.6	17.4	12.5	6.4	7.6	-1.0	-1.0	-2.5	-3.2	-3.1	-2.1	-1.4
27	7.3	17.0	12.6	5.9	7.1	-1.1	-1.1	-2.5	-3.1	-3.1	-2.2	-1.5
28	7.0	16.5	12.6	5.5	6.4	-1.1	-1.3	-2.5	-2.9	-3.1	-2.1	-1.6
29	6.9	16.3	12.6	5.1	5.6	-1.2	-1.4	-2.6	-3.1	-2.7	-2.2	-1.7
30	6.8	.....	12.5	4.9	4.8	-1.3	-1.6	-2.6	-3.0	-2.9	-2.3	-1.8
31	8.5	.....	12.3	.....	4.2	.....	-1.5	-2.6	.....	-2.6	.....	-1.8

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.
1	-1.8	5.6	0.3	19.6	13.6	13.9	9.3	5.0	0.6	-0.8	-1.5	-2.0
2	-1.8	5.2	-0.1	20.0	12.7	13.6	8.5	4.7	0.3	-0.8	-1.5	-2.0
3	-0.4	4.9	-0.1	20.3	12.0	13.1	8.1	4.2	0.3	-0.8	-1.6	-2.0
4	1.9	4.7	-0.1	20.8	11.3	12.9	7.8	3.7	0.2	-0.5	-1.6	-2.0
5	2.2	4.3	-0.2	21.3	11.3	12.1	7.1	3.4	0.1	-0.4	-1.6	-2.1
6	1.8	4.2	0.1	21.8	11.3	11.7	6.8	3.0	0.1	-0.3	-1.7	-2.1
7	4.0	3.9	0.1	22.5	10.8	11.7	6.4	3.0	-0.1	-0.2	-1.7	-2.1
8	8.4	3.6	0.1	23.1	10.0	12.3	5.8	2.3	-0.2	-0.2	-1.7	-2.1
9	9.8	3.5	0.8	23.5	9.7	12.4	5.5	2.1	-0.4	-0.4	-1.7	-2.1
10	9.9	3.3	2.7	23.9	9.2	12.5	5.3	1.8	-0.4	-0.5	-1.7	-2.1
11	10.0	2.9	4.8	24.0	8.9	12.5	4.9	1.7	-0.5	-0.5	-1.7	-2.0
12	9.9	2.9	6.2	24.0	8.5	12.5	4.7	1.4	-0.5	-0.8	-1.7	-1.9
13	9.7	3.2	6.9	24.1	8.3	12.5	4.4	1.5	-0.5	-0.9	-1.7	-2.0
14	9.5	3.4	7.2	24.1	8.1	12.4	4.0	1.0	-0.6	-0.9	-1.8	-2.0
15	9.1	3.2	7.1	23.9	9.9	12.1	3.9	1.0	-0.7	-1.0	-1.8	-2.0
16	8.7	3.0	7.8	23.8	11.5	12.0	3.9	1.0	-0.8	-1.2	-1.9	-2.0
17	8.6	2.8	9.2	23.7	12.0	11.5	3.9	0.9	-0.8	-1.2	-1.9	-1.9
18	8.6	2.7	10.2	23.5	12.1	11.2	3.8	0.9	-0.8	-1.2	-1.9	-1.9
19	8.5	2.1	11.6	22.9	12.6	11.2	3.8	0.9	-0.5	-1.3	-1.9	-1.5
20	8.4	2.0	14.0	22.6	13.2	11.8	3.5	0.9	-0.4	-1.3	-1.9	-1.2
21	8.9	1.9	14.1	21.9	13.8	12.4	3.4	0.9	-0.6	-1.4	-1.9	-1.2
22	9.3	1.5	14.1	21.3	14.2	12.4	2.9	0.5	-0.6	-1.5	-1.9	-1.5
23	9.3	1.4	14.2	20.5	14.5	12.4	2.8	0.5	-0.7	-1.5	-2.0	-0.3
24	9.0	1.2	14.7	19.6	14.7	12.4	2.8	1.0	-0.8	-1.3	-2.0	-0.5
25	8.6	1.0	15.3	19.0	15.1	12.3	2.7	1.0	-0.8	-1.4	-2.0	-0.2
26	8.0	0.8	15.9	18.3	15.1	11.7	2.7	1.5	-0.8	-1.5	-2.0	0.5
27	7.6	0.8	16.5	17.3	15.1	11.6	2.7	1.3	-0.8	-1.5	-2.0	0.8
28	7.0	0.5	17.2	16.3	14.9	11.0	4.1	1.2	-0.6	-1.6	-2.0	1.3
29	6.7	.....	18.1	15.2	14.7	10.3	5.1	1.2	-0.6	-1.6	-2.0	1.5
30	6.2	.....	18.7	14.5	14.5	9.8	5.8	1.0	-0.6	-1.6	-2.0	1.7
31	5.9	.....	19.2	.....	14.3	.....	6.0	1.0	.....	-1.6	.....	1.8

Mississippi River system—Red River, Shreveport, La.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	10.8	6.0	11.6	7.6	14.1	11.4	4.9	2.6	1.9	1.2	4.9
2	1.8	10.0	5.7	12.3	7.3	13.5	11.5	4.7	2.4	1.9	1.0	4.6
3	1.4	9.4	5.3	12.7	6.9	12.9	11.6	4.6	2.2	1.5	0.8	4.2
4	1.3	8.2	5.0	12.7	6.2	12.4	11.6	4.2	2.0	1.4	0.6	4.0
5	1.4	7.7	5.0	12.8	5.7	11.9	11.3	5.5	2.0	1.2	0.5	4.0
6	1.4	7.5	4.8	13.0	6.0	11.5	11.0	5.6	2.0	1.1	0.3	3.5
7	1.4	7.0	4.3	13.1	7.7	11.0	10.8	5.6	1.9	0.9	0.2	3.0
8	1.2	6.5	3.8	12.8	9.2	10.6	10.4	6.2	1.9	0.8	0.1	2.8
9	1.2	5.8	3.5	12.7	10.3	10.3	10.1	6.6	1.9	0.7	-0.1	2.5
10	1.2	5.7	3.1	12.5	11.0	10.1	9.8	6.8	1.8	0.6	1.3	2.3
11	1.2	5.7	3.0	11.6	11.3	10.1	9.5	6.7	2.0	0.6	1.4	2.1
12	1.2	5.7	2.7	11.0	11.5	10.0	9.0	7.2	2.8	1.0	1.3	2.0
13	1.2	5.7	2.6	10.5	12.0	9.7	8.9	7.6	2.5	2.0	2.0	2.0
14	1.7	5.7	2.6	9.9	12.7	9.4	8.6	7.6	2.5	2.2	2.5	1.7
15	3.7	5.6	2.6	9.3	13.2	9.1	8.3	7.6	3.1	2.0	2.9	1.5
16	4.0	5.4	2.4	8.7	13.6	9.9	8.0	7.2	3.4	1.7	2.1	1.5
17	5.0	5.4	6.4	8.3	14.1	11.2	7.9	6.8	5.6	1.5	3.0	1.4
18	5.8	6.3	9.6	7.6	14.4	11.6	7.9	6.5	7.1	1.5	2.9	1.4
19	7.0	6.5	10.9	7.2	14.6	12.0	7.8	6.0	7.3	1.3	2.7	2.5
20	8.2	7.2	11.2	6.9	14.8	12.5	7.6	5.6	6.8	1.1	2.5	2.9
21	9.3	8.5	11.3	6.3	14.9	12.6	7.4	5.2	6.0	1.4	2.0	3.6
22	9.8	8.6	11.4	6.0	14.8	12.6	7.0	5.0	5.6	1.3	2.4	3.6
23	10.0	7.6	11.4	5.9	14.5	12.5	6.8	4.6	4.8	1.3	2.0	3.0
24	10.5	7.4	11.3	5.9	14.3	12.3	6.5	4.2	3.9	1.3	1.7	3.1
25	11.3	7.0	11.1	5.6	14.2	12.2	6.3	4.0	3.5	1.5	1.5	4.2
26	11.8	7.0	10.8	5.4	14.1	12.1	6.2	3.9	3.0	1.6	1.7	6.1
27	12.0	7.0	10.7	5.9	14.1	12.1	6.1	3.5	2.7	2.1	2.6	7.6
28	12.0	6.6	10.1	6.6	14.2	11.9	5.9	3.3	2.5	2.1	4.5	7.9
29	12.0	-----	9.1	7.4	14.4	11.6	5.6	3.0	2.3	1.9	5.0	7.6
30	11.5	-----	9.5	7.7	14.4	11.4	5.3	2.7	2.1	1.6	5.1	6.6
31	11.1	-----	10.5	-----	14.2	-----	5.0	2.6	-----	1.4	-----	6.3

1899.

1	5.8	11.5	4.0	2.8	11.7	9.7	9.9	11.9	1.8	2.1	-0.7	13.5
2	5.3	10.8	3.7	3.2	11.3	11.3	9.4	11.4	1.6	2.4	-0.7	13.4
3	4.5	10.5	4.0	3.5	10.8	12.0	9.0	11.0	1.5	2.3	-0.7	13.4
4	4.2	10.0	4.9	2.5	10.2	12.2	8.4	10.6	1.4	2.2	3.2	13.3
5	3.8	9.7	5.9	2.2	9.5	12.1	8.0	10.0	1.3	1.9	5.2	12.9
6	3.7	9.4	6.5	1.8	8.6	12.0	7.5	9.4	1.2	1.6	5.3	12.5
7	4.0	8.9	6.7	1.8	8.3	11.7	7.3	8.7	1.0	1.4	4.9	12.1
8	3.6	8.5	5.9	1.9	8.0	11.5	6.9	8.1	0.9	1.1	4.7	11.2
9	3.8	8.0	5.6	1.9	8.5	11.2	6.8	7.7	0.8	0.9	4.2	10.5
10	4.3	7.5	5.2	1.5	8.7	10.7	6.5	7.3	0.7	0.7	3.9	10.2
11	7.1	7.0	4.5	1.7	8.7	10.2	6.3	7.0	0.6	0.6	3.8	9.7
12	8.6	6.5	4.0	2.1	8.4	9.7	6.2	6.7	0.4	0.4	3.5	9.1
13	9.3	5.9	3.5	2.4	8.6	10.0	6.5	6.2	0.3	0.4	3.3	8.6
14	9.7	5.8	3.8	2.3	9.3	10.5	6.9	5.9	0.3	0.3	3.2	8.2
15	10.5	5.5	4.0	2.2	11.0	10.6	7.2	5.5	0.4	0.1	2.9	7.9
16	12.3	5.3	4.9	2.1	12.0	10.5	7.2	5.3	0.3	0.0	2.4	7.9
17	13.4	5.2	5.0	1.9	12.5	10.8	7.0	4.9	0.3	0.0	2.1	10.0
18	14.1	4.9	4.4	1.8	12.5	11.1	6.9	4.6	0.2	-0.1	1.7	11.5
19	14.2	4.8	4.0	1.6	12.6	11.3	7.2	4.4	0.2	-0.1	1.3	11.5
20	14.6	4.5	3.9	1.5	12.6	11.3	7.3	4.2	0.2	-0.2	1.3	10.5
21	14.6	4.4	3.5	1.8	12.4	10.9	7.0	4.0	0.1	-0.3	1.1	10.0
22	15.0	4.2	3.2	2.5	12.0	12.0	6.6	3.8	0.0	-0.5	0.9	9.3
23	15.2	4.2	3.1	3.2	11.8	12.5	6.1	3.5	-0.1	-0.5	0.9	9.2
24	15.5	4.1	3.1	3.8	11.5	12.4	8.1	3.3	-0.2	-0.5	0.8	9.0
25	15.7	4.0	3.6	4.7	10.9	12.2	10.9	3.0	0.1	-0.5	8.8	8.8
26	15.5	3.9	3.3	7.0	10.1	12.0	11.9	2.7	1.1	-0.5	12.0	9.4
27	14.6	3.8	3.1	10.1	9.7	11.8	12.2	2.6	1.5	-0.6	12.5	9.6
28	14.1	4.1	3.9	11.3	9.4	11.2	12.1	2.5	1.6	-0.6	13.0	9.8
29	13.4	-----	4.6	11.8	9.3	10.8	11.9	2.3	1.5	-0.6	13.2	9.9
30	12.8	-----	3.9	11.8	9.2	10.3	11.8	2.2	1.7	-0.7	13.3	9.9
31	12.1	-----	3.1	-----	9.2	-----	11.9	2.0	-----	-0.7	-----	9.5

DAILY RIVER STAGES.

201

Mississippi River system—Red River, Alexandria, La.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.0	8.8	22.0	15.2	11.6	5.8	-1.0	-1.5	-2.6	-2.5	-0.1	2.0
2	8.3	12.5	21.4	15.1	10.7	4.9	-1.0	-1.6	-2.7	-2.9	0.2	2.8
3	8.4	22.2	20.8	14.7	9.8	4.3	-1.1	-1.6	-2.7	-2.9	0.2	2.1
4	8.6	23.8	20.1	14.4	9.7	3.7	-1.2	-1.8	-2.8	-3.0	0.2	1.5
5	8.7	24.9	19.6	14.1	9.1	3.4	-1.2	-2.0	-2.8	-3.0	0.3	1.1
6	8.8	26.2	19.5	13.9	8.4	3.0	-1.3	-1.1	-2.8	-3.0	0.4	2.4
7	9.4	26.6	19.5	13.5	8.9	2.9	-1.3	-0.4	-2.9	-3.0	0.5	3.0
8	10.2	26.0	19.4	13.3	7.4	3.6	-1.4	-0.4	-2.9	-3.0	0.6	2.4
9	10.7	25.3	19.3	13.0	7.0	2.8	-1.4	-0.5	-2.9	-3.0	0.6	2.6
10	10.8	25.1	19.1	13.0	6.5	2.4	-1.5	-0.6	-2.9	-3.0	0.6	4.4
11	10.7	24.6	19.7	12.9	6.0	1.8	-1.6	-0.6	-2.9	-3.0	0.6	4.1
12	10.5	24.2	19.5	12.8	5.2	1.5	-1.6	-0.6	-3.0	-3.0	0.8	3.1
13	10.2	23.6	19.2	12.7	5.1	1.2	-1.6	-0.7	-3.0	-3.1	0.6	3.0
14	9.8	23.6	18.8	13.3	4.8	1.0	-1.7	-0.7	-3.1	-3.1	0.6	2.9
15	9.5	23.2	18.5	18.7	4.5	0.7	-1.7	-1.2	-3.1	-3.1	0.6	2.8
16	9.3	23.2	18.0	21.6	4.2	0.4	-1.8	-1.3	-3.1	-3.1	0.6	2.7
17	9.1	23.0	17.4	22.4	3.9	0.3	-1.8	-1.4	-3.1	-3.1	0.6	2.7
18	9.1	22.6	17.5	21.9	3.7	0.2	-1.8	-1.6	-3.1	-3.1	0.5	2.2
19	9.7	22.0	17.8	21.0	3.4	0.1	-1.3	-1.7	-3.1	-3.1	0.4	1.9
20	9.9	21.5	17.8	20.4	3.0	-0.5	-1.4	-1.9	-3.2	-3.2	0.3	1.4
21	9.8	21.4	17.4	19.1	2.9	-0.1	-0.7	-2.0	-3.2	-3.2	0.2	1.0
22	11.0	21.2	17.1	18.4	3.4	-0.4	-0.8	-2.1	-3.2	-3.1	0.2	0.7
23	11.5	21.5	17.0	17.1	3.1	-0.4	-0.8	-2.2	-3.2	-3.0	0.2	0.4
24	13.3	21.7	16.6	16.4	5.1	-0.6	-0.9	-2.3	-3.3	-2.2	0.2	0.1
25	12.7	21.9	16.2	15.7	6.4	-0.7	-0.9	-2.4	-3.3	-2.1	0.1	-0.2
26	12.4	22.2	16.0	15.0	6.8	-0.8	-1.0	-2.4	-3.3	-2.1	0.1	-0.5
27	12.2	22.4	15.8	14.8	7.2	-0.8	-1.0	-2.4	-3.3	-2.1	0.1	-0.6
28	11.4	22.3	15.7	13.4	7.3	-0.9	-1.2	-2.4	-3.4	-2.0	0.3	-0.7
29	10.6	22.3	15.5	12.7	7.1	-1.0	-1.3	-2.4	-3.4	-1.9	0.5	-0.9
30	9.4		15.2	12.1	6.7	-1.0	-1.4	-2.5	-2.7	-1.8	0.6	-1.0
31	8.8		15.2		6.2		-1.5	-2.5		-1.3		-1.2

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-0.9	10.4	3.8	21.6	20.5	17.5	9.3	1.7	-0.6	-2.3	-2.5	-2.8
2	0.1	11.6	3.5	22.6	20.2	17.4	8.6	2.4	-0.6	-2.3	-2.4	-2.8
3	1.1	12.2	3.2	22.9	20.0	17.2	8.0	3.3	-0.6	-2.3	-2.4	-2.0
4	2.8	11.9	2.9	23.1	19.0	17.0	7.5	3.4	-0.7	-2.4	-2.3	-0.1
5	6.0	11.6	2.6	23.4	18.0	16.7	7.0	3.1	-0.9	-2.4	-2.3	2.2
6	6.6	14.1	2.3	23.9	17.7	16.4	6.5	2.8	-1.1	-2.4	-2.3	2.8
7	7.0	15.0	3.3	24.1	17.0	16.1	6.0	2.5	-1.2	-2.5	-2.3	2.8
8	6.7	15.6	4.3	24.3	16.9	15.6	5.4	1.9	-1.3	-2.5	-2.3	2.8
9	6.2	14.5	3.1	24.6	16.8	15.2	4.8	1.4	-1.4	-2.5	-2.6	2.8
10	6.1	13.5	2.9	25.4	16.6	14.8	4.3	1.3	-1.5	-2.3	-2.4	0.8
11	6.0	12.3	2.5	25.6	17.8	14.5	4.1	1.2	-1.6	-2.1	-2.6	-0.2
12	9.5	11.2	2.2	25.8	16.8	14.3	4.0	1.1	-1.7	-1.9	-2.6	0.9
13	10.5	10.2	2.0	25.9	16.2	14.3	3.7	0.7	-1.8	-1.9	-2.6	0.6
14	10.9	9.2	2.6	26.1	16.1	14.1	3.2	0.2	-1.9	-2.0	-2.6	0.6
15	11.3	8.7	3.1	26.3	15.9	13.5	2.8	-0.4	-1.9	-2.0	-2.6	0.2
16	12.2	8.1	6.6	26.3	15.8	13.1	2.6	-0.9	-1.9	-2.0	-2.7	-0.5
17	12.9	7.7	7.2	26.2	15.7	13.7	2.4	-1.3	-1.9	-2.2	-2.8	-1.1
18	13.8	7.6	7.8	26.0	16.2	13.5	2.2	-1.6	-2.0	-2.3	-2.9	-0.5
19	14.7	7.5	8.0	25.8	16.9	13.0	2.0	1.1	-2.0	-2.4	-2.9	0.1
20	14.5	7.1	10.1	25.8	17.2	12.5	1.9	1.2	-2.1	-2.5	-2.9	0.6
21	15.0	6.5	12.2	25.6	17.2	12.0	1.8	1.8	-2.1	-2.5	-3.0	2.6
22	15.0	6.3	13.2	25.4	17.4	12.0	1.6	1.2	-2.2	-2.6	-3.0	3.6
23	14.0	5.8	15.7	25.2	17.5	12.2	1.9	0.7	-2.2	-2.6	-3.0	3.9
24	13.6	5.4	16.1	24.7	17.6	11.9	1.5	1.1	-2.1	-2.7	-3.1	4.5
25	13.2	5.1	17.2	24.3	18.2	11.8	1.3	0.4	-2.0	-2.7	-3.1	5.0
26	12.8	4.8	17.7	24.0	18.1	11.6	1.2	-0.4	-2.1	-2.8	-3.1	6.1
27	12.6	4.5	18.6	23.7	18.2	11.3	1.0	-0.8	-2.1	-2.8	-3.1	6.3
28	12.4	4.1	18.9	23.4	18.3	11.0	0.9	-0.8	-2.1	-2.8	-3.1	4.7
29	11.8		19.5	22.4	18.3	10.6	0.8	-0.8	-2.2	-2.6	-2.9	3.7
30	11.4		20.3	21.5	18.1	10.0	0.6	-0.9	-2.3	-2.5	-2.8	3.3
31	10.7		21.3		17.9		0.5	-0.7		-2.7		3.2

DAILY RIVER STAGES.

Mississippi River system—Red River, Alexandria, La.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		16.9	10.9	13.5	7.8	13.8	12.0	4.6	1.3	3.3	0.1	4.1
2		16.8	10.5	14.0	7.7	14.0	12.1	4.2	1.3	3.3	0.0	4.5
3		16.8	10.1	14.5	8.7	14.1	12.0	3.9	1.2	3.3	0.0	4.0
4		16.2	9.7	15.0	9.3	13.6	11.8	3.6	1.1	1.9	0.0	3.9
5		15.3	9.2	15.0	9.9	13.3	11.8	3.4	1.0	0.8	-0.2	3.8
6		14.6	8.7	15.0	9.4	13.0	11.4	3.2	0.6	0.6	-0.4	3.8
7		14.0	8.2	15.0	9.2	12.8	11.0	3.2	0.2	0.5	-0.6	3.8
8		13.4	7.6	15.1	8.7	12.1	10.8	3.2	0.1	0.1	-0.9	3.8
9		12.9	7.3	15.1	8.2	11.5	10.7	3.6	0.1	0.3	-1.0	4.0
10		12.2	6.6	14.9	8.5	10.8	10.4	3.7	0.1	0.5	-0.8	4.1
11		11.4	6.4	14.4	10.4	10.1	10.0	4.0	0.0	0.0	-0.3	4.2
12		12.9	6.0	14.0	11.0	10.0	9.6	4.5	0.0	-0.2	0.0	4.3
13		13.1	5.3	13.9	11.7	9.9	9.3	4.6	0.1	-0.6	0.5	4.0
14		13.2	4.6	13.8	12.1	9.4	8.8	4.6	0.2	-0.8	0.9	3.5
15		12.7	4.2	13.3	12.5	9.4	8.5	4.8	0.3	-0.9	2.3	3.1
16		12.3	4.2	13.0	12.8	9.0	8.0	5.1	0.4	-1.0	2.5	2.7
17		11.2	4.2	12.4	13.0	8.7	7.6	5.3	0.4	-1.1	3.3	2.5
18		10.8	4.1	11.8	13.2	8.4	7.3	5.4	0.4	-0.4	3.6	2.3
19		11.3	4.1	10.9	13.7	9.1	7.0	5.4	0.3	-0.3	3.7	2.2
20		11.7	4.3	10.0	14.0	9.5	6.8	5.2	-0.3	-0.2	3.8	3.7
21		12.0	4.5	9.6	14.1	10.5	6.5	5.1	0.2	0.0	3.9	4.3
22		11.6	6.6	9.0	14.3	10.9	6.2	5.0	3.4	0.4	4.0	4.3
23		11.8	8.2	8.6	14.6	11.3	6.0	4.6	4.1	0.5	4.1	4.4
24		12.1	10.5	8.6	14.9	11.7	5.9	4.0	4.3	0.6	3.4	4.6
25		12.1	10.8	8.7	14.9	12.1	6.4	3.9	3.8	0.3	3.2	4.7
26		11.9	10.9	8.9	15.0	11.4	5.8	3.9	3.4	0.2	3.4	4.8
27		11.5	10.9	8.5	15.0	11.8	5.2	3.7	2.8	-0.1	3.1	4.9
28		11.4	10.9	8.1	14.6	12.0	4.9	3.0	2.3	-0.1	3.0	4.6
29			10.7	7.9	14.3	11.6	4.8	2.4	1.6	0.0	2.8	5.0
30			11.0	7.8	14.1	12.0	4.7	2.0	2.8	0.1	3.6	5.1
31			13.0		13.8		4.7	1.6		0.2		6.0

1899.

1	6.6	16.8	7.7	8.4	7.8	9.6	10.0	9.5	0.8	-1.7	-2.4	10.2
2	6.7	16.0	7.0	8.3	9.4	9.4	9.4	9.4	0.6	-2.5	-2.5	11.2
3	6.2	15.3	6.9	8.2	11.4	9.2	8.9	9.3	0.3	-2.0	-2.6	11.3
4	6.1	14.8	6.7	7.7	12.5	9.1	8.1	9.2	0.0	-1.5	-2.6	11.4
5	6.0	13.9	6.5	7.3	12.6	9.0	7.6	9.2	-0.1	-0.9	-2.6	11.4
6	8.1	13.5	6.3	7.2	12.0	10.1	7.6	9.1	-0.2	-0.6	-2.6	11.4
7	11.1	13.2	6.2	7.0	11.9	11.3	6.9	9.0	-0.2	-0.5	-2.3	11.2
8	12.4	12.8	6.4	7.0	11.8	11.4	6.1	8.4	-0.3	-0.5	0.2	11.0
9	13.0	12.0	6.7	9.1	10.6	11.5	5.6	7.6	-0.4	-0.5	0.8	10.3
10	10.0	11.4	7.0	9.4	9.7	11.3	5.2	6.8	-0.5	-0.5	1.5	9.6
11	9.4	11.0	7.0	9.3	9.0	11.0	4.8	6.2	-0.6	-0.5	1.5	9.7
12	9.4	10.4	6.9	9.0	8.3	10.9	4.2	5.8	-0.8	-0.7	0.8	9.5
13	10.9	10.1	6.8	8.8	8.9	10.4	3.6	5.4	-1.1	-0.9	0.3	8.7
14	12.0	9.4	6.2	8.0	9.0	9.7	3.5	5.0	-1.2	-1.1	0.1	7.9
15	13.0	9.0	6.4	7.2	9.1	9.1	3.5	4.3	-1.4	-1.2	0.0	7.3
16	13.6	8.3	9.1	6.7	8.5	8.6	3.4	4.0	-1.4	-1.3	0.0	6.9
17	14.0	10.3	10.6	7.0	9.0	8.8	3.4	3.8	-1.4	-1.5	-0.2	6.2
18	15.2	11.3	11.6	6.6	9.1	9.2	4.0	3.6	-1.5	-1.8	0.3	5.6
19	16.1	10.8	11.9	6.4	10.6	9.4	4.2	3.2	-1.5	-1.9	0.2	5.6
20	16.9	10.0	12.3	6.3	11.6	9.4	4.6	3.0	-1.5	-2.0	0.0	8.2
21	17.2	10.0	11.3	6.0	12.4	9.4	4.8	2.8	-1.5	-2.1	0.3	9.5
22	17.2	9.6	10.9	6.0	12.9	9.5	4.8	2.4	-1.6	-2.3	-0.5	9.7
23	17.3	8.7	10.6	5.9	12.5	9.5	4.6	2.1	-1.7	-2.4	-0.8	9.4
24	17.4	8.2	10.1	5.8	12.3	9.5	4.5	2.0	-1.7	-2.4	-1.0	9.3
25	18.0	7.6	9.8	5.6	12.2	9.6	4.5	1.9	-1.8	-2.4	-1.0	8.1
26	18.1	7.2	9.3	5.6	12.0	9.6	4.5	1.7	-1.9	-2.4	-1.0	7.0
27	18.9	8.3	8.8	6.0	12.0	10.2	4.6	1.5	-1.9	-2.4	1.3	7.0
28	18.2	8.9	8.6	6.0	11.8	10.9	7.0	1.3	-2.0	-2.4	1.5	6.9
29	18.1		9.3	7.0	11.5	10.4	8.9	1.1	-2.0	-2.3	8.0	7.3
30	18.1		9.4	7.4	10.8	10.1	9.4	1.0	-2.0	-2.2	9.2	7.5
31	17.6		8.8		10.0		9.8	0.9		-2.3		7.8

DAILY RIVER STAGES.

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Mississippi River system (Red River branch)—Atchafalaya River, Melville, La.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.6	17.7						20.8	12.5	3.4	6.0	10.5
2	20.9	19.5						21.8	12.0	3.3	5.9	11.0
3	21.9	21.5						22.4	11.4	3.3	5.8	11.3
4	22.8	22.0						22.6	11.2	3.6	5.8	11.5
5	23.0	22.5						22.7	10.9	4.0	5.6	11.2
6	23.5	23.0						23.0	10.4	4.1	5.8	11.4
7	24.0	23.5						23.2	10.1	4.1	5.9	12.0
8	24.5	24.0						23.3	9.6	4.1	5.8	13.0
9	24.8	24.2						23.4	8.9	4.2	5.8	14.3
10	25.0	24.4						23.5	8.7	4.2	5.7	16.0
11	24.9	24.8						23.5	8.5	4.2	5.6	16.9
12	24.8	25.4						23.4	8.2	4.4	5.5	17.8
13	24.6	26.0						23.3	7.6	4.4	6.0	18.0
14	24.5	26.7						23.3	7.3	4.5	6.1	18.3
15	23.9	27.2						23.2	7.1	4.5	6.3	18.6
16	23.4	27.5						23.2	6.7	4.3	6.5	18.7
17	23.0	27.9						23.1	6.2	4.7	6.6	18.3
18	22.6	28.0						22.9	5.9	5.0	6.7	17.7
19	22.2	28.3						22.7	5.6	5.5	7.0	17.2
20	22.2	28.6						22.5	5.0	6.0	7.0	16.5
21	21.8	28.9						22.3	4.6	6.4	7.0	15.7
22	21.8	29.0						22.0	4.2	7.0	7.0	15.9
23	22.0	29.2						21.4	4.0	7.3	7.0	14.4
24	21.8	29.4						20.6	3.7	7.6	7.0	13.5
25	21.4	29.6						19.6	3.4	7.2	7.2	13.4
26	21.3	29.7						18.7	3.2	6.6	7.5	13.3
27	20.6	29.8						17.7	3.2	6.5	7.9	13.0
28	19.4	29.8						16.4	3.5	6.5	8.0	13.1
29	18.6	29.8						15.0	3.4	6.6		13.4
30	18.2							14.0	3.4	6.3		13.4
31	17.8							13.0		6.0		13.2

1897.

1	13.2	25.4	27.6	33.5	35.8	35.2	22.5	14.6	9.2	2.5	2.4	2.3
2	13.4	25.8	27.5	33.7	35.8	35.2	22.0	14.4	8.9	2.7	1.9	2.7
3	13.7	25.9	27.6	33.8	35.9	35.1	21.6	14.5	8.5	2.7	1.6	3.2
4	13.9	25.7	27.8	34.0	35.9	35.0	21.4	14.7	8.2	2.7	1.5	4.5
5	14.2	25.4	27.9	34.1	35.9	34.8	21.4	15.0	7.8	2.4	1.6	7.6
6	14.6	25.4	28.2	34.1	35.9	34.6	21.4	15.3	7.5	2.3	1.7	8.6
7	14.7	25.0	28.5	34.1	36.0	34.4	21.5	15.9	7.3	2.3	1.7	9.0
8	14.4	24.6	28.7	34.2	36.0	34.2	21.6	16.4	7.0	2.3	1.7	8.8
9	14.2	24.2	28.9	34.3	36.0	34.0	21.8	17.0	6.8	2.2	2.1	8.5
10	14.7	23.8	29.0	34.4	36.0	33.7	22.0	17.3	6.6	2.2	2.0	8.2
11	15.1	23.4	29.0	34.5	36.0	33.4	22.0	17.5	6.5	2.2	1.9	8.2
12	17.4	23.1	29.1	34.5	36.0	33.0	22.1	17.5	6.2	2.5	1.8	8.2
13	19.2	22.7	29.2	34.6	36.0	32.5	22.1	17.4	6.1	2.4	1.8	8.2
14	21.0	22.4	29.4	34.7	36.0	32.0	22.1	17.0	6.2	2.4	1.9	7.9
15	22.5	22.3	29.6	34.8	36.1	31.5	22.0	16.5	6.0	2.3	2.0	7.6
16	23.2	22.8	29.8	34.9	35.9	31.0	21.6	16.0	5.5	2.4	2.1	7.6
17	23.9	23.4	30.0	35.0	35.9	30.5	21.2	15.5	5.0	2.4	1.7	7.2
18	24.3	24.0	30.2	35.0	35.9	30.0	21.0	15.1	4.6	2.3	1.4	7.2
19	24.3	24.7	30.5	35.1	35.8	29.3	20.6	15.7	4.3	2.3	1.3	7.3
20	24.3	25.6	30.8	35.1	35.8	28.7	20.2	16.1	4.0	2.3	1.4	8.1
21	24.2	26.2	31.0	35.2	35.8	28.1	19.8	16.1	3.8	2.2	1.5	9.1
22	24.0	26.6	31.2	35.2	35.8	27.5	19.4	15.5	3.2	2.1	1.6	10.3
23	23.7	27.0	31.4	35.2	35.8	26.9	19.0	14.8	3.0	1.9	1.7	12.0
24	23.4	27.3	31.6	35.3	35.7	26.3	18.7	14.1	2.9	1.8	1.6	13.2
25	23.0	27.5	31.9	35.4	35.7	25.7	18.3	13.3	2.8	1.7	1.6	13.9
26	22.8	27.5	32.2	35.4	35.6	25.1	17.7	12.6	2.7	1.6	2.1	14.1
27	22.4	27.5	32.3	35.5	35.5	24.4	16.9	11.9	2.5	1.6	2.3	14.4
28	22.8	27.6	32.5	35.6	35.4	24.0	16.4	10.3	2.4	1.6	2.1	14.3
29	23.5		32.8	35.7	35.3	23.5	15.8	10.7	2.4	1.6	2.3	14.2
30	24.5		33.1	35.7	35.2	23.0	15.3	10.2	2.4	1.6	2.4	14.1
31	25.0		33.3		35.2		14.8	9.6		1.9		14.1

DAILY RIVER STAGES.

Mississippi River system (Red River branch)—Atchafalaya River, Melville, La.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.3	30.5	27.5	29.7	33.9	32.0	26.4	16.2	21.3	15.3	13.8	20.0
2	14.6	30.7	27.3	29.9	33.9	32.0	26.2	15.8	20.7	15.3	13.8	19.9
3	15.4	30.9	27.1	30.2	33.9	32.0	26.0	15.6	19.7	15.1	14.0	19.7
4	16.1	31.1	27.0	30.4	33.9	31.9	25.6	15.2	18.3	14.7	14.3	19.4
5	16.6	31.2	27.0	30.7	33.8	31.9	25.3	15.0	17.2	14.4	14.4	19.2
6	17.0	31.3	26.9	30.9	33.8	31.9	25.0	14.8	16.5	14.0	14.5	18.8
7	17.1	31.4	26.8	31.1	33.7	31.8	24.8	14.7	15.6	13.8	14.5	18.8
8	16.9	31.6	26.8	31.3	33.6	31.8	24.6	14.6	14.6	13.8	14.7	18.5
9	16.7	31.7	26.6	31.4	33.5	31.7	24.6	14.8	13.8	14.2	14.8	18.5
10	16.3	31.8	26.5	31.6	33.4	31.5	24.6	16.1	13.2	14.4	15.5	18.5
11	15.8	31.9	26.3	31.8	33.2	31.4	24.6	16.8	12.4	14.6	16.1	18.3
12	15.2	32.0	26.1	31.9	33.1	31.2	24.5	16.9	11.8	14.4	16.5	18.2
13	14.7	32.1	25.7	32.1	33.0	31.0	24.3	17.3	11.4	14.0	16.9	17.3
14	14.3	32.1	25.2	32.2	32.8	30.8	24.1	18.0	10.8	13.7	17.7	16.9
15	14.5	32.1	24.6	32.3	32.8	30.5	23.7	18.3	10.4	13.4	17.9	16.4
16	15.1	32.1	24.4	32.4	32.6	30.2	23.4	18.5	9.9	13.0	17.8	15.9
17	15.5	32.2	23.7	32.6	32.5	29.8	23.1	18.7	9.6	12.7	17.5	15.4
18	15.7	32.2	23.2	32.7	32.5	29.4	22.8	18.8	9.5	12.3	17.5	15.0
19	17.4	32.1	22.7	32.9	32.5	29.0	22.5	18.9	9.7	12.0	17.3	15.0
20	19.4	31.9	23.0	33.0	32.4	28.5	22.3	19.2	10.4	11.6	17.0	15.4
21	21.4	31.6	23.3	33.1	32.4	28.0	22.1	19.7	12.0	12.9	16.8	15.6
22	23.1	31.2	23.9	33.2	32.3	27.5	21.8	20.2	13.0	13.4	16.7	15.3
23	24.9	30.8	24.6	33.3	32.3	27.2	21.3	20.7	15.0	13.9	17.3	15.0
24	26.1	30.2	25.6	33.6	32.3	27.0	20.7	21.0	15.3	14.3	18.0	14.8
25	27.2	29.6	26.2	33.6	32.3	26.8	20.6	21.4	15.1	14.4	18.4	14.7
26	28.0	29.0	26.8	33.7	32.3	26.7	20.1	21.8	14.8	14.3	18.8	14.7
27	28.5	28.5	27.3	33.8	32.3	26.7	19.6	22.1	14.4	14.2	19.1	14.6
28	29.1	28.0	27.8	33.8	32.2	26.7	18.8	22.3	14.2	14.1	19.4	14.6
29	29.6	.....	28.3	33.9	32.1	26.7	18.0	22.3	13.8	14.0	19.6	14.8
30	30.0	.....	28.9	33.9	32.1	26.6	17.3	22.3	14.6	13.9	19.8	15.2
31	30.3	.....	29.4	.....	32.1	.....	16.6	21.8	.....	13.8	.....	15.9

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.7	31.1	28.3	32.2	33.4	30.5	25.9	21.0	11.2	3.0	2.2	8.3
2	17.5	31.2	28.1	32.2	33.3	30.3	25.5	21.1	10.8	2.9	2.2	8.8
3	18.0	31.2	28.0	32.3	33.3	30.2	25.1	20.9	10.3	3.1	2.0	9.2
4	18.9	31.2	27.8	32.4	33.2	30.1	24.7	20.7	9.7	3.6	2.0	9.4
5	20.2	31.2	27.7	32.5	33.1	30.0	24.1	20.5	8.9	3.8	1.7	9.5
6	22.6	31.2	27.7	32.6	33.0	29.9	23.5	20.3	8.4	3.8	1.6	9.6
7	24.9	31.0	28.1	32.6	33.0	29.8	23.0	20.1	7.8	3.8	1.6	9.6
8	25.5	30.8	28.4	32.7	32.9	29.7	22.5	19.6	7.3	3.8	1.8	9.6
9	25.5	30.6	28.6	32.8	32.8	29.6	22.0	19.1	6.8	3.7	2.0	9.9
10	25.5	30.4	28.9	32.9	32.7	29.4	21.7	18.5	6.3	3.7	2.7	9.9
11	25.7	30.1	29.3	33.0	32.6	29.3	21.1	18.0	6.0	3.8	3.4	11.0
12	25.6	29.7	29.6	33.0	32.5	29.1	20.8	17.5	5.8	3.8	4.0	12.4
13	25.6	29.3	29.8	33.1	32.3	28.8	20.5	17.0	5.3	3.7	4.3	12.9
14	25.6	28.8	29.9	33.1	32.2	28.6	20.3	16.3	5.0	3.5	4.4	11.9
15	25.7	28.6	30.2	33.1	32.1	28.4	20.1	15.7	4.9	3.5	4.4	10.9
16	26.2	28.3	30.4	33.2	32.0	28.2	20.0	15.1	4.7	3.4	4.5	9.9
17	26.9	28.2	30.6	33.2	31.8	28.0	20.0	14.6	4.6	3.4	4.4	9.5
18	27.7	28.3	30.7	33.2	31.6	27.8	20.1	13.8	4.4	3.4	4.4	9.3
19	28.3	28.5	30.9	33.3	31.5	27.7	20.4	13.4	4.3	3.3	4.4	9.2
20	28.8	28.6	31.0	33.3	31.4	27.5	20.7	13.8	4.1	3.2	4.5	9.3
21	29.2	28.7	31.1	33.4	31.2	27.4	20.9	13.8	3.8	3.1	4.7	9.4
22	29.6	28.8	31.2	33.4	31.1	27.3	21.1	13.9	3.7	2.9	4.7	9.7
23	29.8	28.9	31.3	33.4	31.0	27.3	21.1	14.0	3.6	2.7	4.7	10.1
24	30.0	28.9	31.4	33.4	30.9	27.3	21.1	14.0	3.5	2.7	4.6	10.5
25	30.2	29.0	31.5	33.4	30.9	27.2	21.0	14.0	3.6	2.8	4.6	11.0
26	30.4	28.8	31.6	33.4	30.9	27.1	20.8	14.0	3.6	2.9	4.0	11.7
27	30.5	28.7	31.8	33.4	30.9	27.0	20.7	13.8	3.4	3.0	3.8	12.1
28	30.7	28.6	31.9	33.4	30.9	26.8	20.7	13.4	3.3	3.1	3.8	12.7
29	30.8	.....	32.0	33.4	30.8	26.6	20.8	12.8	3.2	3.0	5.0	13.1
30	30.9	32.1	33.4	30.7	26.3	20.8	12.2	3.1	2.8	7.3	13.6
31	31.0	32.2	30.6	20.9	11.7	2.3	14.3

DAILY RIVER STAGES.

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*Missouri River system—Missouri River, Bismarck, N. Dak.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.		4.3	4.2	10.3	5.7	3.4	2.6		Frozen.
2					4.2	4.4	10.0	5.5	3.4	2.6		
3					4.0	4.6	9.9	5.4	3.3	2.5		
4					3.7	4.9	9.8	5.2	3.2	2.5		
5					3.5	6.6	9.7	5.0	3.1	2.5		
6					3.3	6.9	9.9	4.9	3.0	2.6		
7					3.2	7.5	10.1	4.9	2.9	2.6	Frozen.	
8					3.2	9.6	9.5	4.8	2.8	2.6		
9					3.1	11.1	9.0	4.7	2.8	2.6		
10					3.1	11.8	8.8	4.6	2.8	2.7		
11					3.3	10.7	8.7	4.5	2.8	2.7		
12					3.4	10.2	8.7	4.4	2.8	2.8		
13					7.4	9.8	8.5	4.3	2.9	2.8		
14					7.9	10.2	8.4	4.3	2.9	2.8		
15					6.8	10.8	8.1	4.2	2.9	2.7		
16					5.8	11.3	7.8	4.1	2.9	2.6		
17					4.6	10.8	7.7	4.0	2.8	2.6		
18					4.1	10.6	7.5	4.0	2.8	2.5		
19					4.0	10.9	7.3	3.9	2.8	2.5		
20					4.4	11.2	7.3	3.8	2.7	2.4		
21					4.5	11.3	7.1	3.7	2.7	2.4		
22					4.5	11.6	6.9	3.6	2.7	2.4		
23					4.8	11.8	6.9	3.5	2.7	2.4		
24					5.1	11.8	6.9	3.6	2.8	2.3		
25					5.1	11.6	6.7	3.7	2.8	2.4		
26					4.7	11.6	6.5	3.6	2.7	2.4		
27					4.6	11.6	6.2	3.5	2.7	2.4		
28					4.8	11.4	6.0	3.4	2.6	2.4		
29					4.5	11.0	5.8	3.4	2.6	2.4		
30					4.3	10.7	5.8	3.4	2.6	2.3		
31					4.2		5.8	3.4		2.2		

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	Frozen.	5.5	8.7	7.3	5.1	2.6	2.0	2.2	3.1
2					5.2	8.3	7.1	4.9	2.5	2.0	2.3	3.2
3					4.9	8.3	7.1	4.7	2.5	1.9	2.3	3.3
4					4.7	8.4	7.3	4.6	2.5	1.8	2.3	3.5
5					15.4	8.6	7.2	4.5	2.5	1.9	2.2	3.5
6					22.2	8.9	7.0	4.4	2.4	1.9	2.2	3.3
7					20.5	8.8	6.8	4.4	2.4	1.8	2.2	3.3
8					23.7	8.3	6.8	4.3	2.4	1.8	2.2	3.2
9					23.3	8.0	6.8	4.2	2.3	1.7	2.2	3.1
10					16.0	7.7	6.9	4.1	2.3	1.7	2.2	2.9
11					19.6	7.5	6.7	4.0	2.2	1.7	2.3	2.8
12					12.0	7.4	6.5	4.0	2.2	1.7	2.3	2.7
13					10.0	7.4	6.3	3.9	2.2	1.7	2.2	2.7
14					8.8	7.3	6.1	3.9	2.2	1.8	2.2	2.8
15					8.3	7.1	6.1	3.7	2.1	1.9	2.1	2.8
16					8.1	6.8	6.1	3.6	2.1	2.0	2.1	2.9
17					8.1	6.2	6.1	3.6	2.1	2.0	1.7	3.1
18					7.9	6.0	5.9	3.6	2.1	2.0	3.3	3.1
19					7.4	5.8	5.7	3.5	2.0	1.9	3.9	3.3
20					6.9	5.8	5.6	3.5	2.0	1.9	2.2	3.4
21					6.7	5.9	5.5	3.4	2.0	1.9	3.4	3.6
22					6.5	6.8	5.3	3.4	2.0	1.9	3.4	3.7
23					6.3	7.2	5.4	3.3	2.0	2.0	3.4	4.1
24					6.0	7.5	5.4	3.2	2.0	2.0	2.8	4.2
25					5.9	8.2	5.4	3.2	2.0	2.0	2.7	4.3
26					5.9	9.0	5.4	3.1	2.0	2.0	2.8	4.4
27					5.8	9.1	5.4	3.0	2.0	2.1	2.8	4.4
28					5.8	9.1	5.4	3.0	2.0	2.2	2.7	4.4
29					5.9	8.8	5.3	2.9	2.0	2.2	2.7	4.6
30					5.8	8.8	5.2	2.8	2.0	2.2	3.0	4.4
31					8.8		5.2	2.7		2.2		4.4

Missouri River system—Missouri River, Bismarck, N. Dak.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	5.2	5.6	4.7	10.1	10.8	5.4	2.9	2.2	2.5	2.8
2			5.2	5.4	4.5	10.1	10.1	5.3	2.9	2.1	2.6	2.9
3			5.3	5.2	4.3	10.6	9.8	5.2	2.9	2.0	2.6	3.1
4			5.2	5.0	4.7	10.4	9.5	5.2	2.8	2.0	2.6	3.1
5			5.2	4.9	5.0	10.2	9.4	5.1	2.7	2.0	2.6	3.0
6			5.1	4.8	5.5	10.0	9.3	5.0	2.9	2.0	2.5	3.0
7			5.0	4.6	5.5	10.0	9.2	4.9	3.3	2.0	2.5	3.0
8			5.0	4.5	5.3	10.0	8.9	4.8	3.7	2.0	2.4	3.1
9			5.0	4.4	5.3	9.9	8.7	4.6	3.9	2.1	2.3	3.1
10			5.2	4.3	5.1	9.8	8.5	4.4	3.9	2.2	2.3	3.1
11			5.3	3.5	4.9	9.8	8.3	4.2	3.8	2.4	2.4	3.2
12			5.5	4.3	4.6	9.4	8.2	4.2	3.6	2.7	2.5	3.4
13			5.6	5.0	4.5	9.1	7.9	4.1	3.5	2.8	2.6	3.5
14			5.7	6.2	4.3	9.0	7.8	4.1	3.3	2.8	2.6	3.6
15			6.0	10.7	4.1	9.0	7.8	4.1	3.1	2.8	2.6	3.7
16			6.2	9.6	3.9	9.3	7.8	4.0	3.1	2.7	2.5	3.8
17			6.4	8.7	3.8	9.6	7.7	3.9	3.0	2.5	2.4	4.0
18			6.5	6.6	3.8	9.9	7.7	3.9	2.9	2.4	2.4	4.1
19			6.4	6.0	3.9	10.3	7.7	3.8	2.8	2.4	2.5	4.1
20			6.4	6.1	4.2	10.9	7.7	3.8	2.7	2.3	2.5	4.2
21			6.4	6.3	6.6	11.2	7.4	3.7	2.7	2.4	2.7	4.2
22			6.3	6.4	7.4	11.2	7.1	3.6	2.6	2.4	2.6	4.1
23			6.4	6.2	8.0	11.4	6.8	3.5	2.5	2.4	2.4	4.0
24			6.4	5.9	8.0	11.6	6.7	3.4	2.5	2.3	2.3	3.9
25			6.2	5.6	8.5	11.8	6.4	3.4	2.5	2.4	2.5	3.7
26			6.2	5.3	8.2	12.6	6.2	3.4	2.4	2.4	2.7	3.7
27			6.1	5.2	7.8	12.5	6.0	3.5	2.4	2.4	2.6	3.3
28			6.0	5.2	7.5	12.0	5.8	3.4	2.3	2.3	2.6	3.1
29			5.9	5.1	7.5	12.0	5.7	3.3	2.2	2.3	2.6	3.1
30			5.8	5.1	8.6	11.4	5.6	3.1	2.2	2.4	2.6	3.2
31			5.8		9.3		5.5	3.0		2.5		3.3

1899.

1	3.3	3.8	4.6	7.0	5.8	7.9	10.9	6.0	3.7	2.0	2.0	2.0
2	3.3	3.9	4.9	6.8	5.3	8.2	11.2	6.3	3.6	2.0	2.0	2.0
3	3.4	4.0	4.9	6.7	5.6	8.4	11.5	6.3	3.5	2.2	2.1	2.0
4	3.4	4.1	5.1	6.6	5.8	9.6	11.6	6.3	3.5	2.1	2.1	1.6
5	3.5	4.2	5.3	6.3	5.4	9.1	11.6	6.2	3.5	2.0	2.2	0.5
6	3.5	4.2	5.6	6.5	5.0	8.2	11.7	6.2	3.4	2.0	2.2	1.6
7	3.6	4.2	6.2	6.8	4.8	8.5	11.9	6.0	3.3	1.9	2.2	2.2
8	3.6	4.5	7.4	7.4	5.1	9.5	11.9	5.9	3.2	1.9	2.2	2.5
9	3.6	4.6	8.3	7.9	5.1	10.3	11.6	5.8	3.1	1.8	2.2	2.8
10	3.6	4.6	8.3	8.5	5.3	10.7	11.2	5.8	3.1	1.7	2.2	3.5
11	3.8	4.6	8.3	9.2	5.5	10.3	10.8	5.7	3.0	1.6	2.2	3.0
12	3.9	4.5	8.3	11.0	5.9	9.6	10.7	5.6	2.9	1.6	2.2	2.5
13	3.9	4.5	7.7	17.2	6.6	9.1	10.6	5.7	2.8	1.6	2.1	1.8
14	3.7	4.4	7.2	21.2	6.1	8.6	10.4	5.7	2.8	1.5	2.1	1.8
15	3.4	4.4	7.2	19.8	5.4	8.3	10.2	5.7	2.8	1.5	2.1	1.9
16	3.0	4.3	7.5	18.0	5.1	8.3	9.9	5.6	2.7	1.6	2.1	2.0
17	3.0	4.2	8.0	17.3	5.3	8.6	9.8	5.6	2.6	1.6	2.1	2.3
18	3.0	4.1	8.3	17.1	5.8	9.0	9.6	5.5	2.4	1.6	2.0	1.9
19	3.0	4.0	9.3	17.0	6.0	8.9	9.7	5.3	2.4	1.6	2.0	2.1
20	3.0	3.9	10.4	13.0	6.3	8.5	9.4	5.1	2.4	1.7	2.0	2.1
21	3.0	3.8	10.6	10.9	6.3	8.4	9.2	4.9	2.3	1.7	1.9	2.1
22	3.0	3.7	10.9	9.6	6.1	8.6	9.0	4.6	2.3	1.7	1.9	2.0
23	3.0	3.7	10.8	8.9	6.2	9.6	8.7	4.8	2.3	1.8	1.9	2.0
24	3.0	3.8	10.2	8.2	6.4	10.5	8.5	4.8	2.3	1.8	1.9	2.0
25	3.0	4.0	9.3	7.8	8.5	11.2	8.3	4.6	2.2	1.9	1.9	2.0
26	3.4	4.1	9.2	7.7	9.1	11.2	8.1	4.4	2.2	1.9	2.0	2.2
27	3.4	4.4	8.9	7.8	8.7	11.8	7.9	4.3	2.2	1.9	2.0	2.2
28	3.5	4.4	8.3	7.2	8.2	11.6	7.7	4.1	2.0	1.9	2.0	2.0
29	3.6		8.2	6.9	7.7	11.6	7.4	4.1	2.0	1.9	2.0	1.8
30	3.7		7.7	6.5	7.3	11.6	6.9	3.9	2.0	1.9	2.0	1.7
31	3.8		7.4		6.6		6.8	3.8		1.9		1.7

DAILY RIVER STAGES.

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Missouri River system—Missouri River, Pierre, S. Dak.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.8	2.0	3.2	7.8	4.0	5.0	9.2	5.6	3.0	2.1	1.6	Frozen.
2	2.8	2.8	3.2	9.5	3.8	4.6	9.2	5.2	3.2	2.0	1.7	-----
3	2.8	2.8	3.4	9.1	4.2	4.5	9.0	5.0	2.8	2.0	1.6	-----
4	3.0	2.8	3.3	8.6	4.3	4.8	9.1	5.2	2.8	1.9	1.6	-----
5	3.0	2.8	3.4	8.6	4.6	4.4	8.6	5.1	2.8	2.0	1.7	-----
6	3.0	2.8	3.6	6.8	4.6	4.6	8.3	5.0	2.7	2.0	1.7	-----
7	2.9	2.8	3.6	6.8	4.4	5.2	8.4	4.9	2.6	1.9	1.8	-----
8	2.8	2.8	3.6	6.4	4.2	7.4	8.3	4.5	2.6	1.8	1.9	-----
9	2.8	2.8	3.8	5.5	3.6	8.8	9.1	4.5	2.5	1.7	1.6	-----
10	2.8	2.8	3.8	4.5	3.8	8.8	8.8	4.4	2.4	1.7	1.0	-----
11	2.8	2.7	3.9	4.4	3.8	9.8	8.0	4.2	2.4	1.6	0.4	-----
12	2.2	2.7	4.0	3.8	3.5	9.8	7.8	4.1	2.2	1.8	0.8	-----
13	2.2	2.7	4.1	4.0	3.4	9.2	7.6	4.0	2.2	1.9	0.9	-----
14	2.2	2.8	4.8	3.4	3.4	8.4	7.4	4.1	2.1	1.8	0.7	-----
15	2.2	2.7	5.5	3.1	6.6	8.0	7.6	4.0	2.0	1.8	0.3	-----
16	2.2	2.8	5.7	3.1	7.7	7.9	7.7	3.9	2.2	1.9	0.8	-----
17	2.2	2.8	5.8	3.2	6.8	9.6	7.2	3.6	2.2	1.7	1.7	-----
18	2.0	2.8	5.5	3.3	5.0	9.2	6.9	3.3	2.3	2.0	1.8	-----
19	2.0	2.8	5.3	2.9	5.2	9.5	6.7	3.2	2.2	1.8	Frozen.	-----
20	2.0	2.9	5.2	3.0	4.4	9.1	6.5	3.3	2.2	1.8	-----	-----
21	2.0	2.9	4.8	3.0	4.2	8.9	6.4	3.2	2.2	1.6	-----	-----
22	2.0	2.9	4.5	3.2	3.9	9.6	6.4	3.2	2.3	1.8	-----	-----
23	2.1	2.9	4.3	3.5	4.2	9.5	6.4	3.2	2.2	1.9	-----	-----
24	2.1	3.0	4.2	3.2	4.8	9.6	6.4	3.0	2.2	1.7	-----	-----
25	2.1	2.9	3.8	3.1	4.6	9.8	6.2	3.0	2.2	1.7	-----	-----
26	2.1	3.0	4.1	3.1	4.9	10.0	6.1	3.0	2.1	1.9	-----	-----
27	1.1	3.1	4.0	3.0	5.4	9.7	6.3	3.0	2.0	1.8	-----	-----
28	1.2	3.2	3.1	3.1	5.6	9.5	6.1	2.9	2.1	1.8	-----	-----
29	1.3	3.2	3.8	3.6	5.4	9.6	5.9	2.8	2.1	1.7	-----	-----
30	1.3	-----	3.6	4.3	5.0	9.4	5.8	2.9	2.1	1.5	-----	-----
31	1.3	-----	4.7	-----	5.0	-----	5.8	3.1	-----	1.7	-----	-----

1897.

1	Frozen.	Frozen.	Frozen.	7.4	6.5	8.6	7.2	4.6	2.3	0.8	1.3	Frozen.
2	-----	-----	-----	6.8	6.5	8.6	7.4	4.6	2.2	0.8	1.4	-----
3	-----	-----	-----	6.5	6.2	8.5	7.4	4.6	2.1	0.8	1.3	-----
4	-----	-----	-----	6.6	5.9	8.1	7.0	4.5	2.0	0.8	1.4	-----
5	-----	-----	-----	7.2	5.7	8.1	6.8	4.4	2.0	0.8	1.4	-----
6	-----	-----	-----	7.0	5.3	8.0	7.0	4.5	1.9	0.8	1.4	-----
7	-----	-----	-----	6.0	5.2	8.3	7.2	4.4	1.9	0.8	1.4	-----
8	-----	-----	-----	9.5	5.1	8.4	7.0	4.1	1.8	0.8	1.5	-----
9	-----	-----	-----	11.7	5.0	8.5	6.8	4.1	1.8	0.8	1.4	-----
10	-----	-----	-----	11.2	5.4	8.1	6.6	4.0	1.7	0.8	1.3	-----
11	-----	-----	-----	11.2	5.7	7.9	6.6	3.9	1.7	0.8	1.2	-----
12	-----	-----	-----	11.4	5.8	7.6	6.7	3.7	1.6	0.8	1.3	-----
13	-----	-----	-----	12.1	5.8	7.2	6.7	3.5	1.6	0.7	1.3	-----
14	-----	-----	-----	10.2	6.1	7.1	6.5	3.4	1.5	0.6	1.3	-----
15	-----	-----	-----	9.5	7.2	6.9	6.3	3.4	1.4	0.6	1.2	-----
16	-----	-----	-----	8.8	7.3	6.6	6.0	3.4	1.3	0.6	1.2	-----
17	-----	-----	-----	8.4	7.2	6.9	5.8	3.3	1.3	0.6	1.2	-----
18	-----	-----	-----	8.3	6.9	7.5	5.7	3.2	1.2	0.6	1.2	-----
19	-----	-----	-----	8.6	6.6	7.3	5.9	3.2	1.2	0.8	1.2	-----
20	-----	-----	-----	8.1	6.3	7.2	5.9	3.1	1.2	0.9	1.2	-----
21	-----	-----	-----	7.6	6.0	7.2	5.7	2.9	1.0	1.0	0.9	-----
22	-----	-----	-----	7.1	5.8	7.3	5.5	2.8	1.0	1.1	0.6	-----
23	-----	-----	-----	6.9	5.8	7.8	5.4	2.8	1.0	1.0	0.1	-----
24	-----	-----	-----	6.8	6.8	7.8	5.3	2.7	0.9	1.0	-0.1	-----
25	-----	-----	-----	6.8	7.5	7.8	5.2	2.7	0.9	1.0	-0.3	-----
26	-----	-----	-----	6.6	7.5	7.4	5.1	2.7	0.9	1.0	-0.7	-----
27	-----	-----	-----	6.6	8.0	7.1	5.1	2.5	0.3	1.0	-1.1	-----
28	-----	-----	-----	6.6	8.5	7.1	5.0	2.5	0.9	1.1	Frozen.	-----
29	-----	-----	-----	6.6	8.6	7.1	4.9	2.5	0.9	1.1	-----	-----
30	-----	-----	4.2	6.4	8.7	7.0	4.8	2.4	0.9	1.1	-----	-----
31	-----	-----	5.5	-----	8.6	-----	4.8	2.3	-----	1.1	-----	-----

DAILY RIVER STAGES.

Missouri River system—Missouri River, Pierre, S. Dak.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	Frozen.	Frozen.	Frozen.	2.6	5.1	8.2	10.4	5.4	3.2	2.5	2.4	Frozen.
2.....				2.5	4.9	8.8	10.1	5.3	3.2	2.4	2.4	Frozen.
3.....				2.5	4.7	9.2	9.6	5.2	3.1	2.4	2.4	Frozen.
4.....				2.6	4.7	9.3	9.0	5.2	3.0	2.4	2.4	Frozen.
5.....				2.7	4.6	9.4	8.6	5.0	2.9	2.4	2.4	Frozen.
6.....				2.8	4.4	9.2	8.4	4.9	2.9	2.4	2.4	Frozen.
7.....			2.6	2.5	4.3	9.0	8.4	4.9	2.8	2.4	2.4	Frozen.
8.....			2.4	2.3	4.7	9.0	8.4	4.8	2.9	2.4	2.4	Frozen.
9.....			2.2	2.1	5.4	9.1	8.4	4.6	2.8	2.3	2.4	Frozen.
10.....			2.0	2.2	5.4	9.0	8.5	4.6	2.8	2.3	2.4	Frozen.
11.....			2.0	2.2	5.3	9.2	8.2	4.5	2.8	2.2	2.4	Frozen.
12.....			1.8	2.2	5.0	9.2	7.9	4.3	3.0	2.4	2.4	Frozen.
13.....			1.5	2.0	4.9	9.1	7.6	4.2	3.4	2.3	2.4	Frozen.
14.....			1.7	1.8	4.9	8.8	7.6	4.2	3.9	2.4	2.2	Frozen.
15.....			1.7	4.1	4.8	8.5	7.6	4.0	3.9	2.5	2.2	Frozen.
16.....			1.6	6.3	4.6	8.4	7.4	3.9	3.8	2.5	2.2	Frozen.
17.....			1.5	8.7	4.5	8.4	7.4	3.9	3.6	2.6	2.2	Frozen.
18.....			1.7	8.5	4.4	8.6	7.3	3.9	3.4	2.7	2.2	Frozen.
19.....			1.8	7.4	4.2	8.8	7.2	3.9	3.4	2.8	2.2	Frozen.
20.....			2.0	6.3	4.3	9.1	6.9	3.9	3.2	2.6	2.2	Frozen.
21.....			2.3	5.7	4.3	9.5	7.0	3.8	3.0	2.6	1.7	Frozen.
22.....			2.3	5.6	4.4	10.2	7.2	3.7	3.0	2.6	Frozen.	Frozen.
23.....			1.4	6.0	5.8	10.3	7.2	3.6	3.0	2.6	Frozen.	Frozen.
24.....			0.8	6.2	6.8	10.2	7.0	3.5	2.8	2.6	Frozen.	Frozen.
25.....			3.7	6.0	7.6	10.4	6.7	3.5	2.8	2.6	Frozen.	Frozen.
26.....			2.5	5.9	7.6	10.6	6.4	3.6	2.6	2.6	Frozen.	Frozen.
27.....			2.3	5.3	8.2	10.8	6.2	3.4	2.6	2.6	Frozen.	Frozen.
28.....			2.3	5.2	8.2	11.2	6.0	3.3	2.6	2.6	Frozen.	Frozen.
29.....			2.5	5.1	8.0	10.8	5.9	3.2	2.6	2.6	Frozen.	Frozen.
30.....			2.7	5.1	8.3	10.6	5.7	3.2	2.6	2.6	Frozen.	Frozen.
31.....			2.7		7.3		5.6	3.2		2.5	Frozen.	Frozen.

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	Frozen.	Frozen.	Frozen.	Frozen.	7.4	7.7	10.6	7.1	4.3	2.7	2.5	2.4
2.....					7.2	7.5	10.3	6.8	4.2	2.6	2.5	2.4
3.....					6.8	8.3	10.6	6.6	4.1	2.6	2.5	2.4
4.....					6.4	9.9	10.9	6.6	4.1	2.6	2.5	2.0
5.....					6.8	10.9	10.9	6.4	4.0	2.6	2.5	2.1
6.....					7.0	10.5	10.8	6.4	4.0	2.5	2.6	2.0
7.....					6.7	9.6	10.9	6.4	3.9	2.6	2.6	2.0
8.....					6.4	9.5	10.9	6.3	3.8	2.6	2.6	1.8
9.....					6.0	9.5	10.9	6.2	3.6	2.6	2.6	1.0
10.....					5.8	10.0	10.8	6.0	3.5	2.5	2.7	0.8
11.....				9.8	5.8	10.5	10.6	5.8	3.4	2.5	2.7	0.8
12.....				6.0	5.7	10.5	10.2	5.6	3.4	2.5	2.7	0.8
13.....				6.2	5.9	10.0	10.1	5.5	3.3	2.4	2.7	0.9
14.....				7.9	6.2	9.4	9.9	5.3	3.3	2.4	2.7	0.7
15.....				11.2	6.7	9.2	9.9	5.2	3.2	2.4	2.7	0.8
16.....				14.3	6.4	9.0	9.9	5.2	3.3	2.4	2.7	0.8
17.....				15.4	6.2	8.7	9.6	5.4	3.2	2.4	2.6	0.7
18.....				15.7	5.8	8.7	9.3	5.5	3.2	2.5	2.6	Frozen.
19.....				15.9	5.8	9.0	9.2	5.6	3.1	2.5	2.6	Frozen.
20.....				15.6	6.0	9.5	9.2	5.6	3.0	2.4	2.6	Frozen.
21.....				15.0	6.5	9.3	9.1	5.6	2.9	2.4	2.6	Frozen.
22.....				12.0	7.0	9.2	8.8	5.7	2.9	2.4	2.6	Frozen.
23.....				9.8	7.5	9.1	8.7	5.2	2.9	2.4	2.6	Frozen.
24.....				8.7	7.7	9.3	8.6	5.0	2.9	2.4	2.5	Frozen.
25.....				8.3	7.8	10.3	8.4	4.8	2.8	2.4	2.5	Frozen.
26.....				7.8	7.9	10.9	8.4	4.8	2.8	2.4	2.5	Frozen.
27.....				7.6	9.2	11.1	8.1	4.8	2.7	2.4	2.4	Frozen.
28.....				7.8	9.3	11.5	7.9	4.7	2.5	2.4	2.4	Frozen.
29.....				7.8	8.8	11.4	7.8	4.5	2.7	2.5	2.4	Frozen.
30.....				7.4	8.5	11.0	7.5	4.4	2.8	2.5	2.4	Frozen.
31.....					8.0		7.3	4.4		2.5	Frozen.	Frozen.

DAILY RIVER STAGES.

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Missouri River system—Missouri River, Sioux City, Iowa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	Frozen.	Frozen.	6.4	7.1	8.1	8.7	13.4	10.4	5.8	4.9	5.3	Frozen.
2.....			5.6	7.5	8.2	8.7	13.3	10.1	5.7	4.8	5.2	
3.....			5.7	8.2	8.1	8.5	13.2	9.9	5.6	4.8	5.2	
4.....			6.3	12.6	8.5	8.6	12.9	9.6	5.7	4.9	5.1	
5.....			6.4	13.6	8.9	8.7	12.6	9.4	5.8	4.8	5.0	
6.....			6.3	12.9	9.0	8.9	12.8	9.2	5.8	4.8	4.9	
7.....			5.9	12.2	8.9	9.1	12.6	9.0	5.7	4.8	4.8	
8.....			6.6	11.0	8.7	9.0	12.2	9.0	5.6	4.8	4.8	
9.....			6.6	10.5	8.6	9.0	12.2	9.2	5.4	4.7	Frozen.	
10.....			8.1	10.3	8.5	9.2	12.3	9.1	5.5	4.8		
11.....			11.2	9.8	8.6	12.6	12.7	8.8	5.6	4.8		
12.....			10.5	9.2	8.5	13.2	12.9	8.3	5.7	4.8		
13.....			10.0	8.8	8.3	13.7	12.5	8.0	5.6	4.7		
14.....			9.5	8.7	8.3	14.2	12.0	7.9	5.5	4.6		
15.....			9.5	8.5	7.9	13.7	11.7	7.7	5.4	4.6		
16.....			9.7	8.0	7.9	12.8	11.5	7.6	5.3	4.6		
17.....			10.1	7.9	7.8	12.0	11.4	7.6	5.2	4.6		
18.....			10.1	7.7	10.7	11.7	11.3	7.4	5.1	4.6		
19.....			10.2	7.6	11.3	12.1	11.3	7.3	5.0	4.7		
20.....			10.3	7.7	10.4	12.8	11.1	7.3	5.0	4.7		
21.....			12.4	7.8	9.7	13.1	10.9	7.2	5.0	4.7		
22.....			8.9	7.7	8.6	12.7	10.8	6.8	5.0	4.8		
23.....			7.4	7.6	8.1	12.8	10.8	6.8	4.9	4.8		
24.....			6.7	7.5	7.7	13.1	10.6	6.7	4.9	4.9		
25.....			6.4	7.5	8.1	13.5	10.6	6.5	5.0	4.9		
26.....		6.1	6.1	7.6	7.8	13.5	10.6	6.4	5.0	5.0		
27.....		6.7	6.2	7.5	7.7	13.7	10.5	6.2	5.0	4.9		
28.....		6.5	6.4	7.7	7.9	13.9	10.6	6.1	5.0	4.9		
29.....		6.4	6.6	7.8	8.3	13.8	10.4	6.0	5.0	4.9		
30.....			6.9	7.8	8.3	13.6	10.5	5.8	4.9	5.0		
31.....			6.7		8.5		10.7	5.8		5.1		

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	Frozen.	Frozen.	Frozen.	12.0	9.8	12.1	10.8	8.3	7.0	5.3	5.6	Frozen.
2.....				11.7	9.9	12.0	10.8	8.2	7.0	5.2	5.2	
3.....				13.2	9.8	11.7	10.7	8.1	7.0	5.1	5.0	
4.....				14.1	9.8	11.5	10.6	8.1	7.0	5.0	4.8	
5.....				13.8	9.9	11.3	10.8	8.0	7.0	5.0	4.8	
6.....				13.5	9.7	11.1	11.4	8.0	7.0	4.9	4.8	
7.....				13.2	9.5	11.0	11.5	7.9	6.9	4.9	4.8	
8.....				13.3	9.3	10.9	11.0	7.7	6.8	4.9	4.8	
9.....				12.4	9.1	10.7	10.6	7.7	6.7	4.9	4.8	
10.....				13.5	8.8	11.2	10.7	7.7	6.5	4.9	4.7	
11.....				16.2	8.6	11.6	11.2	7.7	6.4	4.9	4.7	
12.....				15.9	8.4	11.6	10.9	7.8	6.3	5.0	4.7	
13.....				16.0	8.4	10.9	10.4	7.6	6.2	4.9	4.7	
14.....				16.0	8.5	10.6	10.3	7.5	6.2	4.9	4.7	
15.....				16.4	8.4	10.5	10.1	7.4	6.1	4.9	4.7	
16.....				15.9	9.1	10.5	10.2	7.3	6.1	4.9	4.6	
17.....				14.3	9.2	10.5	10.2	7.3	6.0	4.9	4.6	
18.....				13.5	10.7	10.4	10.0	7.3	6.0	4.9	4.6	
19.....			9.8	12.7	11.1	10.4	9.7	7.3	6.0	4.9	4.5	
20.....			10.4	12.5	10.8	10.3	9.7	7.3	6.0	4.9	4.5	
21.....			14.3	12.2	10.6	10.5	9.6	7.3	6.0	4.9	4.4	
22.....			13.7	12.1	10.4	10.8	9.5	7.5	6.0	4.9	4.4	
23.....			12.2	11.5	10.0	10.6	9.7	7.5	5.8	4.9	4.4	
24.....			10.8	11.0	9.7	10.5	9.7	7.2	5.7	4.9	4.3	
25.....			10.2	10.6	9.5	10.4	9.5	7.1	5.5	4.9	4.1	
26.....			9.9	10.5	9.3	10.7	9.3	7.1	5.5	4.9	4.2	
27.....			9.7	10.3	9.3	11.4	9.2	7.1	5.5	4.9	4.2	
28.....			9.5	10.2	10.7	11.6	9.0	7.2	5.4	4.9	Frozen.	
29.....			9.0	9.9	11.2	11.3	8.8	7.1	5.4	4.9		
30.....			8.8	9.9	11.6	10.9	8.6	7.1	5.3	5.5		
31.....			10.4		12.1		8.4	7.0		5.6		

DAILY RIVER STAGES.

Missouri River system—Missouri River, Sioux City, Iowa—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	6.7	8.9	13.1	14.7	9.8	5.8	5.4	5.8	Frozen.
2				6.5	8.9	13.0	14.7	9.7	5.7	5.4	5.7	
3				6.4	8.9	12.2	14.6	9.5	5.7	5.2	5.7	
4				6.4	8.9	13.1	14.2	9.3	5.5	5.2	5.7	
5				6.3	8.9	13.8	14.0	9.1	5.5	5.2	5.7	
6				6.4	8.6	13.8	13.9	9.0	5.5	5.2	5.7	
7				6.4	8.5	13.7	13.9	8.7	5.5	5.2	5.7	
8			8.0	6.4	8.4	13.5	13.9	8.6	5.5	5.2	5.7	
9			7.0	6.2	8.3	13.1	13.7	8.4	5.4	5.1	5.7	
10			6.2	6.1	8.1	12.9	13.5	8.1	5.3	5.2	5.6	
11			6.2	6.2	8.0	12.8	13.4	7.9	5.3	5.2	5.7	
12			6.0	6.3	8.1	12.8	13.4	7.8	5.4	5.3	5.7	
13			6.0	6.3	8.7	12.7	12.5	7.7	5.5	5.2	5.7	
14			6.1	6.1	9.3	12.7	12.1	7.6	5.5	5.1	5.7	
15			6.2	6.0	9.2	12.7	12.1	7.5	5.6	5.2	5.7	
16			6.1	5.9	9.1	12.7	12.0	7.4	5.5	5.0	5.6	
17			6.3	6.0	9.0	12.3	11.8	7.1	5.5	5.1	5.6	
18			6.1	6.0	9.0	12.2	11.8	7.0	5.8	5.0	5.6	
19			6.0	10.3	9.1	12.1	11.7	6.9	6.2	5.2	5.6	
20			6.0	12.7	9.2	12.1	11.5	6.7	6.5	5.3	5.6	
21			6.0	11.2	9.3	12.4	11.3	6.5	6.6	5.2	5.6	
22			6.0	10.0	10.0	12.7	11.3	6.4	6.5	5.3	Frozen.	
23			6.0	9.2	9.8	12.9	11.0	6.3	6.2	5.4		
24			6.0	8.9	9.2	13.3	10.8	6.2	6.0	5.5		
25			6.0	8.9	8.8	14.5	10.8	6.1	6.0	5.5		
26			6.1	9.2	8.6	14.5	11.0	6.0	5.9	5.7		
27			6.1	9.6	11.2	14.2	11.1	6.0	5.8	5.7		
28			6.0	9.5	12.1	14.2	10.8	5.9	5.7	5.7		
29			6.0	9.5	12.2	14.6	10.6	5.8	5.6	5.7		
30			7.0	9.1	12.9	14.7	10.3	5.7	5.4	5.7		
31			7.0		12.8		10.1	5.7		5.8		

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	Frozen	11.5	11.8	14.0	10.7	7.8	5.0	5.0	5.4
2					11.6	11.2	13.8	10.6	7.9	4.9	5.0	5.5
3					11.5	10.9	13.6	10.5	7.5	4.9	5.1	5.4
4					11.4	10.6	13.1	10.2	7.3	4.8	5.1	5.3
5					11.7	10.2	12.9	10.0	7.0	4.8	5.1	
6				11.3	10.6	11.0	13.4	9.7	6.9	4.8	5.1	
7				10.7	10.0	13.7	13.8	9.6	6.7	4.8	5.2	
8				9.2	10.1	14.0	13.8	9.5	6.5	4.8	5.2	
9				8.4	10.3	12.9	13.7	9.6	6.4	4.7	5.1	
10				8.1	10.4	11.8	13.8	9.7	6.4	4.8	5.1	
11				8.3	9.8	11.6	13.9	9.4	6.2	4.8	5.1	
12				8.4	9.6	12.0	13.9	9.4	6.1	4.9	5.1	
13				9.6	9.1	13.0	13.7	9.3	5.9	5.0	5.2	
14				11.4	8.9	13.2	13.5	9.1	5.7	4.9	5.3	
15				10.1	8.8	13.0	13.0	8.8	5.4	4.9	5.3	
16				11.5	9.0	12.7	12.7	8.6	5.5	5.0	5.5	
17				14.8	9.1	12.0	12.5	8.4	5.5	4.9	5.5	
18				16.6	9.4	11.2	12.5	8.3	5.4	5.1	5.5	
19				17.2	9.7	10.8	12.6	9.1	5.4	4.9	5.5	
20				17.9	9.4	10.7	12.3	8.7	5.4	4.8	5.5	
21				18.2	8.8	10.8	12.1	8.5	5.4	4.8	5.6	
22				18.3	8.8	11.3	11.8	8.6	5.4	4.9	5.6	
23				18.4	9.0	11.8	11.7	8.6	5.4	4.9	5.6	
24				17.8	9.3	11.9	11.6	8.4	5.3	4.9	5.6	
25				15.6	9.8	11.7	11.5	8.4	5.2	5.0	5.7	
26				13.6	11.1	11.4	11.3	8.7	5.2	5.0	5.6	
27				13.1	11.5	12.1	11.3	8.5	5.1	5.0	5.5	
28				12.5	11.4	13.4	11.1	8.2	5.1	5.0	5.5	
29				11.9	11.6	13.7	11.0	8.0	5.0	5.0	5.5	
30				11.3	12.2	13.9	10.8	7.7	5.2	4.9	5.3	
31					12.4		10.7	7.6		5.0		

DAILY RIVER STAGES.

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Missouri River system—Missouri River, Omaha, Nebr.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.2	Frozen.	7.2	7.4	8.7	9.4	13.5	11.0	8.1	7.4	7.4	5.6
2	6.1		7.0	7.4	8.7	9.7	13.3	10.8	8.0	7.4	7.4	5.9
3	6.0		5.8	7.9	8.7	9.6	13.4	10.7	8.0	7.4	7.4	6.1
4	Frozen.		5.4	7.9	8.9	9.4	13.3	10.5	7.9	7.4	7.4	6.1
5			5.1	11.4	8.7	9.6	13.1	10.4	7.9	7.4	7.4	5.9
6			5.4	13.4	8.9	9.7	12.8	10.2	7.9	7.4	7.4	5.6
7			5.4	12.9	9.3	9.8	12.8	9.9	7.9	7.4	7.4	5.3
8			5.1	12.7	9.4	10.0	12.8	9.9	7.9	7.4	7.2	5.4
9			4.8	11.7	9.4	9.9	12.4	9.9	7.9	7.4	7.1	5.6
10			4.9	11.2	9.3	9.8	12.2	10.1	7.9	7.4	7.1	5.7
11			4.9	11.0	9.2	9.8	12.2	10.1	7.9	7.4	6.7	5.6
12			5.8	10.6	9.1	11.9	12.3	10.1	7.9	7.4	6.6	5.7
13			5.2	10.2	9.4	12.7	12.5	9.8	7.9	7.2	5.8	5.8
14			5.4	9.7	9.7	13.7	12.2	9.7	7.9	7.2	5.5	5.8
15			5.2	9.6	9.4	14.2	11.8	9.5	7.9	7.2	5.4	6.0
16			5.4	9.5	9.4	14.3	11.6	9.4	7.8	7.2	5.2	6.1
17			5.8	9.1	9.5	13.6	11.3	9.3	7.8	7.2	5.0	6.0
18			6.0	8.8	9.4	13.0	11.3	9.3	7.7	7.2	5.2	6.1
19			6.2	8.6	10.8	12.6	11.2	9.3	7.7	7.1	5.3	6.2
20			6.3	8.6	11.4	12.6	11.2	9.2	7.7	7.1	4.0	6.2
21			6.6	8.7	11.2	12.9	11.1	9.1	7.6	7.1	3.7	6.3
22			8.2	8.7	10.7	13.1	10.9	9.1	7.5	7.1	3.9	6.2
23			8.9	8.8	10.2	13.0	10.9	9.0	7.5	7.1	3.8	6.1
24			8.5	8.7	9.6	12.8	10.8	8.8	7.5	7.1	4.1	6.0
25			7.5	8.4	9.2	12.9	10.7	8.7	7.5	7.1	4.4	6.2
26		5.9	7.2	8.3	9.2	13.2	10.7	8.7	7.4	7.2	4.5	6.0
27		6.7	6.9	8.2	9.3	13.3	10.8	8.5	7.4	7.2	4.4	5.9
28		6.6	6.9	8.3	9.2	13.5	10.9	8.4	7.4	7.2	3.0	5.8
29		7.4	7.0	8.3	9.2	13.6	10.8	8.3	7.4	7.2	3.8	5.9
30			7.2	8.7	9.4	13.7	10.8	8.2	7.4	7.4	4.4	6.4
31			7.3		9.5		10.8	8.1		7.4		6.3

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.9	9.7	9.1	11.4	11.2	12.5	11.6	9.0	6.5	4.9	5.3	Frozen.
2	6.4	9.5	8.8	12.2	11.1	12.5	10.8	8.9	6.5	4.9	5.5	
3	5.7	9.5	8.7	12.4	11.0	12.6	10.8	8.9	6.4	4.8	5.4	
4	5.2	9.3	8.4	13.2	10.8	12.5	10.7	8.9	6.3	4.8	5.2	
5	Frozen.	9.1	8.3	14.3	10.7	12.3	10.6	8.9	6.2	4.8	5.2	
6		9.0	8.2	14.8	10.7	12.3	10.6	8.9	6.1	4.7	5.1	
7		9.0	8.2	14.8	10.7	12.2	11.0	8.9	6.1	4.7	5.1	
8		9.0	8.1	14.6	10.5	12.0	11.3	8.8	6.0	4.7	5.1	
9		8.9	8.1	14.6	10.4	12.2	11.1	8.7	5.9	4.7	5.1	
10	9.2	8.8	8.4	14.1	10.2	12.0	10.7	8.6	5.8	4.7	5.1	
11	9.2	8.7	8.8	14.4	10.0	12.1	10.5	8.5	5.8	4.7	5.1	
12	9.0	8.7	9.4	15.7	9.8	12.3	10.8	8.5	5.8	4.7	5.1	
13	9.0	8.6	9.8	16.6	9.6	12.4	10.8	8.5	5.7	4.7	5.2	
14	9.2	8.5	10.1	16.9	9.4	12.1	10.4	8.6	5.7	4.7	5.2	
15	9.4	8.5	10.3	17.1	9.4	11.7	10.1	8.5	5.8	4.7	5.2	
16	9.4	8.4	10.5	17.1	9.5	11.4	10.0	8.5	5.8	4.8	5.2	
17	9.7	8.4	10.8	17.1	9.8	11.1	10.0	8.1	5.7	4.8	5.2	
18	9.8	8.3	9.8	16.5	9.9	11.0	10.2	7.9	5.6	4.8	5.2	
19	10.0	8.5	8.4	15.5	10.7	10.9	10.2	7.7	5.5	4.9	5.3	
20	9.9	9.0	9.3	14.6	11.5	10.7	9.9	7.6	5.5	4.9	5.3	
21	9.9	9.2	11.5	14.2	11.3	10.7	9.7	7.6	5.5	4.9	5.3	
22	9.9	9.3	14.3	13.7	11.0	10.9	9.7	7.6	5.4	4.8	5.3	
23	9.9	9.3	15.0	13.4	10.8	11.2	9.6	7.5	5.4	4.8	5.3	
24	9.9	9.4	14.0	13.1	10.4	11.1	9.6	7.3	5.3	4.8	5.3	
25	10.0	9.4	13.0	12.7	10.1	10.9	9.7	7.2	5.2	4.8	5.3	
26	10.0	9.5	12.4	12.3	9.9	10.8	9.7	7.1	5.2	4.7	5.3	
27	10.1	9.5	12.1	11.9	9.6	11.1	9.5	7.0	5.1	4.7	5.3	
28	10.1	9.4	11.9	11.7	9.6	11.5	9.3	6.9	5.1	4.7	Frozen.	
29	10.0		11.6	11.6	10.8	11.7	9.3	6.8	5.0	4.7		
30	9.9		11.1	11.3	11.6	11.4	9.3	6.7	5.0	4.7		
31	9.8		10.8		12.0		9.2	6.6		4.9		

DAILY RIVER STAGES.

Missouri River system—Missouri River, Omaha, Nebr.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	5.7	6.3	9.4	12.4	14.3	10.5	7.4	7.0	6.5	Frozen.
2			5.7	6.9	9.1	12.4	14.6	10.3	7.4	6.8	6.5	
3			5.7	6.8	8.9	12.5	14.7	10.2	7.4	6.8	6.5	
4			5.6	6.6	9.0	12.0	14.5	10.0	7.3	6.8	6.5	
5			5.4	6.4	9.1	12.4	14.3	9.9	7.3	6.6	6.5	
6			5.3	6.4	8.9	13.2	14.0	9.9	7.2	6.6	6.4	
7			5.3	6.4	8.8	13.5	13.5	10.0	7.2	6.6	6.4	
8			5.9	6.5	8.6	13.5	12.9	9.8	7.2	6.6	6.4	
9			6.2	6.6	8.5	13.6	12.7	9.8	7.1	6.6	6.3	
10			7.5	6.5	8.4	13.5	12.6	9.8	7.2	6.6	6.3	
11			6.8	6.5	8.3	13.2	12.3	9.6	7.2	6.6	6.3	
12			6.3	6.4	8.2	12.9	12.2	9.4	7.1	6.6	6.3	
13			6.3	6.5	8.2	12.8	12.2	9.2	7.1	6.6	6.3	
14			6.6	6.5	8.3	12.7	12.1	9.1	7.1	6.6	6.3	
15			7.0	6.6	9.0	12.6	11.9	9.0	7.0	6.6	6.3	
16			6.9	6.6	9.2	12.6	11.7	8.9	7.0	6.6	6.3	
17			6.6	6.4	8.8	12.5	11.6	8.7	7.0	6.6	6.3	
18			6.5	6.4	8.9	12.3	11.5	8.6	6.9	6.6	6.3	
19			6.5	6.4	8.9	12.1	11.5	8.5	6.9	6.4	6.2	
20			6.4	9.1	9.0	11.9	11.3	8.4	6.9	6.4	6.2	
21			6.3	12.3	9.2	11.9	11.3	8.4	7.2	6.4	6.2	
22			6.2	11.9	9.2	12.0	11.2	8.3	7.5	6.4	5.0	
23			5.9	10.7	9.4	12.1	11.1	8.2	7.6	6.4	Frozen.	
24			6.0	9.9	9.7	12.3	11.0	8.1	7.6	6.6		
25		6.4	5.9	9.4	9.3	12.5	10.9	8.0	7.5	6.6		
26		6.2	5.8	9.3	8.9	13.1	10.9	7.9	7.4	6.6		
27		6.0	5.7	9.4	8.7	13.6	11.0	7.8	7.3	6.6		
28		5.8	5.4	9.6	10.1	13.6	11.1	7.7	7.2	6.6		
29			5.5	9.7	11.2	13.8	11.0	7.7	7.1	6.8		
30			5.7	9.7	11.9	14.0	10.8	7.6	7.0	6.8		
31			5.9		12.1		10.6	7.5		6.6		

1899.

1	Frozen.	Frozen.	Frozen.	7.8	12.2	12.8	13.9	11.0	8.4	6.6	6.5	6.8
2				8.3	11.9	12.3	14.2	10.9	8.3	6.6	6.5	6.8
3				7.8	11.9	12.0	14.2	10.9	8.4	6.6	6.5	6.8
4				7.6	11.7	11.7	13.8	10.8	8.3	6.6	6.4	6.8
5				7.7	11.6	11.3	13.7	10.7	8.3	6.6	6.4	6.8
6				8.3	11.4	11.0	13.4	10.4	8.2	6.6	6.4	6.7
7				11.5	11.2	11.4	13.7	10.3	8.2	6.5	6.5	6.6
8				12.0	10.7	12.8	13.9	10.2	8.1	6.5	6.5	6.5
9				9.9	10.5	13.6	14.0	9.9	8.1	6.5	6.5	6.5
10				9.4	10.7	13.5	13.9	9.8	8.0	6.5	6.5	6.4
11				9.1	10.7	12.6	13.8	9.8	7.9	6.5	6.5	6.4
12				9.1	10.5	12.5	13.9	9.6	7.8	6.4	6.5	6.5
13				9.1	10.1	12.9	13.9	9.6	7.7	6.4	6.5	6.6
14				9.9	9.8	13.5	13.7	9.5	7.7	6.4	6.5	5.2
15				11.2	9.7	13.7	13.6	9.4	7.6	6.4	6.6	4.7
16				11.0	9.4	13.7	13.3	9.3	7.4	6.5	6.6	5.0
17				11.4	9.5	13.4	13.1	9.1	7.3	6.5	6.6	4.4
18				13.5	9.7	13.1	12.9	9.0	7.3	6.5	6.7	4.5
19				15.1	10.0	12.7	12.8	8.9	7.2	6.5	6.7	4.6
20				16.0	10.4	12.5	12.6	9.2	7.2	6.5	6.7	4.9
21				16.9	10.1	12.2	12.4	9.2	7.2	6.5	6.8	4.8
22				17.6	9.7	12.1	12.1	9.0	7.2	6.4	6.9	4.6
23				18.0	9.5	12.3	12.0	8.9	7.1	6.4	6.9	4.4
24				18.2	9.5	12.5	12.0	8.9	7.1	6.4	6.9	4.3
25				18.5	9.6	12.4	11.9	8.9	7.1	6.4	6.9	4.6
26			6.2	17.7	10.1	12.2	11.8	8.8	7.0	6.4	6.9	4.8
27			6.3	15.9	10.8	12.2	11.7	8.8	6.9	6.4	6.9	4.7
28			6.6	14.5	11.4	12.5	11.6	8.8	6.9	6.4	6.8	4.9
29			6.8	13.5	11.6	13.2	11.4	8.7	6.8	6.5	6.8	5.2
30			7.0	12.6	12.0	13.6	11.2	8.6	6.7	6.5	6.8	5.3
31			7.6		12.4		11.1	8.5		6.5		5.7

DAILY RIVER STAGES.

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*Missouri River system—Missouri River, Plattsmouth, Nebr.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			4.0	4.8	5.1	5.9	10.3					
2			3.5	4.7	5.1	6.1	10.1					
3			2.8	5.0	5.3	5.9	9.9					
4			2.5	5.3	5.2	5.8	9.9					
5			2.2	7.2	5.2	5.9	9.6					
6			2.3	9.0	5.3	6.0	9.2					
7			2.4	9.3	5.4	5.9	9.2					
8			2.3	9.2	5.4	8.0	9.1					
9			2.2	8.3	5.4	7.0	8.7					
10			2.5	7.4	5.3	6.7	8.5					
11			2.7	7.7	5.2	6.6	8.4					
12			3.2	7.5	5.2	8.6	8.6					
13			3.0	7.0	5.6	9.8	8.7					
14			2.9	6.8	5.9	10.3	8.3					
15			3.0	6.8	5.8	10.7	7.7					
16			2.7	6.5	6.1	11.0	7.2					
17			2.8	5.9	6.3	10.5	7.0					
18			3.0	5.9	6.5	9.7	7.1					
19			2.9	5.2	7.2	9.4	6.9					
20			3.0	5.1	8.3	9.5	6.9					
21			3.3	5.3	8.2	9.8	6.8					
22			4.0	5.3	7.9	10.2	6.5					
23			5.9	5.4	7.5	9.9	6.4					
24			5.5	5.2	6.8	9.6	6.4					
25			4.8	5.0	6.2	9.9	6.3					
26			5.0	4.8	6.0	10.1	6.3					
27			4.8	4.7	5.9	10.2	6.3					
28			4.8	4.7	5.9	10.3	6.3					
29			4.6	4.7	5.7	10.5	6.3					
30			4.6	4.6	5.9	10.5	6.1					
31			4.7		6.1		6.2					

1897.

1			7.6	7.7	7.7	8.5	7.5			3.0		
2			8.3	9.1	7.6	8.6	7.1			2.2		
3			8.5	9.3	7.3	8.8	7.3			1.2		
4			8.6	9.9	7.1	8.7	7.0			1.0		
5			8.7	11.2	6.9	8.7	6.7			1.1		
6			8.7	11.3	6.8	8.7	6.5			1.4		
7			8.5	11.3	6.7	8.8	6.6			1.9		
8			8.3	11.1	6.5	8.6	6.8			2.0		
9			8.5	11.1	6.6	8.5	6.8			2.4		
10			9.0	10.7	6.5	8.6	6.5			2.2		
11			8.0	10.6	6.2	8.7	6.3			2.2		
12			7.5	11.5	6.1	8.8	6.5			2.4		
13			7.0	12.0	6.0	8.8	6.6			2.6		
14			6.8	12.0	5.9	8.5	6.3			2.8		
15			7.0	12.2	5.9	8.3	6.1			2.1		
16			6.7	12.1	5.9	8.1	6.1			1.5		
17			6.8	12.3	6.1	7.9	6.0			1.3		
18			6.0	12.1	6.1	7.8	6.1			0.9		
19			5.8	11.4	6.4	7.7	6.1			1.0		
20			6.0	10.8	6.3	7.5	6.0			0.5		
21			7.3	10.3	7.4	7.3	5.9			0.4		
22			9.0	10.0	7.2	7.3	5.9			1.7		
23			11.0	9.8	7.0	7.6	5.9			2.1		
24			10.6	9.4	6.8	7.7	5.9			2.4		
25			9.6	9.3	6.6	7.5	5.9			2.8		
26			9.4	8.8	6.3	7.3	5.9			2.9		
27			8.9	8.4	6.2	7.5	5.7			3.0		
28			8.5	8.2	6.2	7.8	5.6			3.0		
29			8.0	8.0	6.6	8.0	5.6			3.2		
30			7.5	7.9	7.5	8.0	5.4			3.0		
31			7.3		7.9		5.4			2.6		

DAILY RIVER STAGES.

Missouri River system—Missouri River, Plattsmouth, Nebr.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			3.9	3.7	6.0	8.8	10.0					
2			3.9	3.8	5.7	8.8	10.5					
3			4.4	3.7	5.5	9.3	10.7					
4			3.8	3.6	5.6	8.7	10.7					
5			3.8	3.6	5.3	9.5	10.5					
6			3.7	3.5	5.8	10.4	10.0					
7			3.7	3.6	5.7	10.7	9.6					
8			3.8	3.7	5.6	10.6	8.8					
9			3.7	3.8	5.4	10.9	8.5					
10			3.8	3.7	5.3	10.8	8.3					
11			4.0	3.6	5.1	10.7	8.0					
12			3.8	3.6	5.0	10.4	7.8					
13			3.7	3.7	4.9	10.2	7.7					
14			3.8	3.7	4.9	10.0	7.6					
15			4.1	3.7	5.3	9.7	7.5					
16			4.0	3.8	5.6	9.6	7.2					
17			3.9	3.8	5.5	9.4	7.0					
18			3.7	4.0	5.3	9.0	6.9					
19			3.7	3.8	5.3	8.7	7.0					
20			3.7	4.7	5.5	8.3	7.0					
21			3.4	8.5	5.8	8.1	6.9					
22			3.6	7.9	6.0	8.0	6.8					
23			3.5	7.1	6.4	8.0	6.7					
24			3.4	6.4	6.4	8.1	6.6					
25			3.4	6.0	6.1	8.2	6.4					
26			3.4	5.9	5.8	8.8	6.4					
27			3.1	5.9	5.7	9.2	6.4					
28			3.2	6.0	6.0	9.2	6.7					
29			3.1	6.1	7.5	9.4	6.6					
30			3.3	6.1	8.0	9.7	6.4					
31			3.2		8.5		6.3					

1899.

1			5.1	4.4	8.0	9.0	10.8					
2			5.2	4.7	7.9	9.0	10.9					
3			5.1	4.3	7.9	8.6	11.1					
4			5.1	4.2	7.7	8.4	10.8					
5			5.1	4.3	7.8	8.2	10.4					
6			5.1	4.9	7.6	7.9	10.2					
7			5.2	6.8	7.7	8.3	10.1					
8			5.2	8.2	7.4	9.3	10.6					
9			5.3	6.6	7.3	9.7	10.4					
10			5.5	6.1	7.2	9.6	10.4					
11			5.1	5.9	7.3	9.1	10.3					
12			5.5	5.7	7.0	9.0	10.3					
13			6.5	5.7	6.7	9.3	10.3					
14			6.7	6.4	6.4	9.5	10.4					
15			6.2	7.3	6.5	10.2	10.3					
16			6.5	7.3	6.5	10.4	9.9					
17			6.4	7.3	6.3	10.2	9.7					
18			6.3	8.8	6.4	9.9	9.4					
19			6.0	10.2	6.3	9.7	9.3					
20			5.6	11.1	6.8	9.4	9.2					
21			5.5	11.6	6.6	9.1	9.0					
22			5.2	12.1	6.4	9.0	8.8					
23			5.0	12.5	6.3	9.3	8.7					
24			5.0	12.5	6.3	9.5	8.5					
25			4.5	12.7	6.5	9.5	8.4					
26			4.2	12.3	6.7	9.2	8.3					
27			4.0	11.0	7.6	9.4	8.2					
28			4.4	9.7	8.0	9.6	8.3					
29			4.8	8.9	8.3	10.4	8.3					
30			4.4	8.4	8.0	10.5	8.0					
31			4.3		8.9		7.8					

DAILY RIVER STAGES.

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Missouri River system—Missouri River, St. Joseph, Mo.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.1	0.6	2.1	3.4	4.2	5.9	10.5	6.2	3.1	2.4	3.7	-2.7
2	-1.7	0.6	2.5	3.4	4.8	5.9	10.4	6.7	2.9	2.3	3.8	-3.1
3	-1.8	0.6	2.5	3.6	4.7	5.6	10.3	7.1	2.9	2.3	3.7	-2.3
4	-1.8	0.7	2.3	3.6	4.9	5.5	10.2	6.9	2.8	2.3	3.4	-1.9
5	-1.7	0.7	1.3	3.9	4.9	5.3	10.3	6.6	2.8	2.3	3.3	-0.8
6	-2.3	0.7	0.5	6.1	4.7	4.9	10.0	6.7	2.8	2.3	3.0	0.7
7	-3.1	2.1	-0.1	8.4	4.5	5.0	9.4	6.6	2.7	2.2	2.9	0.9
8	-2.8	2.4	-0.1	8.3	4.6	5.2	9.2	6.4	2.7	2.2	2.7	0.6
9	-2.6	1.9	-0.2	8.3	4.6	7.8	9.2	5.9	2.6	2.1	2.7	0.7
10	-2.0	1.9	-0.3	7.3	4.7	6.5	8.9	5.6	2.7	2.1	2.5	0.3
11	-1.3	1.9	-0.3	6.5	4.6	6.0	8.5	5.4	2.8	2.1	2.5	0.8
12	-0.9	2.1	-0.3	6.4	4.5	5.8	8.5	5.4	2.8	2.1	2.3	0.9
13	-0.9	1.7	-0.2	6.1	4.6	7.8	8.5	5.4	2.9	2.1	2.2	0.9
14	-0.7	1.4	0.5	6.0	4.9	9.0	8.7	5.3	2.8	2.2	1.9	1.1
15	-0.7	2.1	0.1	5.5	5.5	9.3	8.5	5.1	3.0	2.3	1.4	1.7
16	-0.6	1.3	0.4	5.6	5.6	9.7	8.0	4.9	3.2	2.2	1.0	2.6
17	-0.5	1.1	0.4	5.6	5.7	10.0	7.4	5.0	3.2	2.1	0.9	2.1
18	-0.4	0.9	0.9	5.4	6.2	10.0	7.1	4.9	3.1	2.1	0.8	2.5
19	-0.3	0.8	1.3	4.9	6.6	9.2	7.3	4.8	3.2	2.0	0.5	2.8
20	0.1	0.7	0.7	4.4	6.6	8.9	7.0	4.7	3.3	2.0	0.7	2.3
21	0.3	0.7	0.7	4.5	8.8	9.0	7.1	4.7	3.3	2.0	0.8	2.0
22	0.4	0.8	0.8	4.4	8.4	9.2	7.1	4.6	3.3	1.9	0.3	2.1
23	0.4	0.8	2.7	4.5	8.0	9.6	6.9	4.4	3.2	1.9	-0.4	1.8
24	0.1	0.6	4.2	4.7	7.5	9.6	6.7	4.1	3.0	1.9	-0.6	1.8
25	0.8	0.6	5.1	4.7	7.0	9.4	6.7	3.9	2.8	1.9	-0.8	1.8
26	0.7	1.7	3.9	4.5	6.2	9.5	6.6	3.8	2.6	1.8	-0.7	1.7
27	0.5	2.7	3.4	4.1	5.6	10.0	6.4	3.6	2.5	1.9	-0.4	1.4
28	0.5	2.6	3.7	4.1	5.5	10.3	6.5	3.5	2.5	1.9	-0.2	1.4
29	0.4	2.3	3.5	3.9	5.4	10.3	6.6	3.5	2.5	2.0	-1.3	1.3
30	0.4		3.4	4.0	4.9	10.5	6.6	3.3	2.5	2.7	-2.7	1.5
31	0.5		3.3		4.9		6.5	3.2		3.3		1.6

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	2.8	7.2	9.3	8.0	7.7	4.2	2.1	-0.3	0.5	-1.6
2			2.8	7.6	8.8	8.5	7.4	4.2	2.0	0.2	1.0	-1.6
3			2.6	8.9	8.8	8.9	6.9	4.2	1.8	0.1	1.1	-1.6
4			2.1	9.5	8.3	9.0	7.5	3.9	1.8	0.1	1.3	-2.2
5			2.3	10.0	7.8	9.1	7.1	3.8	1.7	0.1	1.4	-2.1
6			2.4	10.7	7.6	9.0	6.7	4.1	1.6	0.0	1.4	-2.7
7			2.3	10.9	7.4	9.0	6.4	4.0	1.5	0.0	1.2	-2.7
8			2.6	10.8	7.3	8.7	6.3	3.9	1.4	-0.1	1.1	-2.7
9			2.7	10.6	7.2	8.5	6.7	3.7	1.3	-0.1	1.1	-2.5
10			2.7	10.6	7.1	8.2	7.0	3.7	1.2	-0.2	1.0	-2.0
11			2.8	10.5	7.1	8.3	6.7	3.7	1.1	-0.2	1.0	-1.7
12			4.1	10.0	6.8	8.4	6.3	3.6	1.2	-0.1	0.9	-1.5
13			4.0	11.4	6.8	8.6	6.3	3.5	1.2	-0.1	0.9	-1.4
14			4.2	12.0	6.7	8.9	6.5	3.7	1.0	-0.1	1.0	-1.3
15			4.4	12.2	6.5	8.8	6.4	3.6	1.0	0.1	1.0	-1.2
16			4.0	12.6	6.3	8.3	5.8	3.6	1.0	-0.1	1.1	-1.1
17			3.8	12.9	6.2	8.0	5.5	3.6	1.2	0.0	1.2	-1.2
18			4.2	13.2	6.4	7.8	5.4	3.5	1.3	0.2	1.2	-0.8
19			5.9	13.1	6.5	7.6	5.3	3.4	1.3	0.3	1.2	-0.6
20			5.5	12.5	6.6	7.6	5.4	3.2	1.0	0.3	1.2	-0.4
21			5.7	11.7	7.5	7.2	5.4	2.9	0.9	0.3	1.2	0.0
22			7.4	11.2	7.6	6.9	5.2	2.9	0.7	0.4	1.2	0.3
23			9.6	10.7	7.3	6.9	5.0	2.9	0.7	0.5	1.2	0.6
24			10.3	10.7	7.2	7.1	5.0	3.0	0.7	0.6	1.1	0.7
25			10.0	10.9	7.0	7.5	5.0	2.9	0.6	0.5	1.0	0.7
26			9.2	10.7	7.1	7.1	5.0	2.7	0.5	0.4	0.9	0.7
27			8.6	10.5	6.6	7.0	5.0	2.6	0.5	0.3	0.9	0.6
28			8.3	10.2	6.8	7.1	4.9	2.5	0.4	0.2	0.7	0.5
29			8.2	10.5	6.8	7.4	4.7	2.4	0.4	0.2	0.4	0.5
30			7.8	10.0	6.9	7.8	4.5	2.3	0.3	0.1	-1.3	0.4
31			7.4		8.0		4.4	2.2		0.1		0.4

DAILY RIVER STAGES.

Missouri River system—Missouri River, St. Joseph, Mo.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		1.6	2.4	1.3	5.1	7.6	9.4	5.4	2.4	1.6	1.0	-3.0
2		1.6	2.6	1.3	5.2	7.7	9.6	5.1	2.3	1.6	1.1	-2.6
3		2.0	2.6	1.8	4.8	7.7	10.1	5.0	2.2	1.5	1.1	-2.3
4		1.7	2.3	2.4	4.4	8.0	10.2	5.0	2.2	1.3	1.0	-3.1
5		1.5	3.0	2.7	4.4	7.8	10.0	4.7	2.6	1.2	1.1	-2.9
6		1.4	2.9	2.6	4.6	8.2	9.7	4.5	3.5	1.2	1.1	-2.6
7		0.9	2.7	2.4	4.7	9.2	9.5	4.6	3.1	1.1	1.1	-2.8
8		0.8	2.4	2.2	4.6	9.6	9.6	4.7	2.8	1.0	1.0	-3.1
9		0.7	2.3	2.2	4.5	10.0	9.0	4.7	2.3	0.9	1.0	-3.0
10		1.0	2.6	2.3	4.3	10.1	9.1	4.6	2.0	0.9	1.0	-2.6
11		1.3	3.8	2.5	4.1	10.1	8.7	4.6	2.0	0.9	0.9	-2.0
12		1.9	4.1	2.5	3.9	10.0	8.3	4.5	2.1	0.9	0.9	-2.0
13		2.2	3.3	2.5	3.7	9.8	7.9	4.3	2.4	0.9	0.9	-1.9
14		2.3	2.7	2.2	3.6	9.2	7.8	4.1	2.4	1.0	0.9	-1.7
15		2.2	2.5	2.1	3.4	9.2	7.6	3.8	2.3	1.0	0.9	-1.3
16		2.4	2.5	2.1	3.6	9.1	7.4	3.8	2.1	0.9	0.8	-1.2
17		2.9	3.0	2.1	4.2	9.0	7.1	3.7	2.2	1.3	0.8	-1.1
18		2.2	3.3	2.1	4.5	8.8	6.8	3.6	2.1	1.4	0.9	-1.1
19		1.8	3.2	2.2	4.3	8.7	6.6	3.5	2.1	1.3	0.9	-1.0
20		1.7	2.9	2.4	4.3	8.4	6.7	3.4	2.0	1.2	0.9	-1.0
21		2.0	2.6	2.4	4.4	8.2	6.7	3.3	1.9	1.1	0.9	-1.1
22		2.2	2.5	7.0	4.7	8.0	6.5	3.2	1.8	0.9	1.0	-1.1
23		2.6	2.5	7.6	5.1	7.9	6.2	3.1	1.9	0.8	-1.5	-1.0
24		2.6	2.4	6.5	5.5	7.9	6.1	3.2	2.1	0.8	-2.3	-1.0
25		2.6	2.1	5.7	5.6	8.1	6.0	3.0	2.4	0.9	-2.5	-0.9
26		2.5	1.7	5.2	5.4	8.4	5.8	2.8	2.5	1.0	-2.7	-0.9
27		2.6	1.5	4.6	5.2	9.0	5.6	2.8	2.3	0.9	-3.3	-1.0
28		2.5	1.5	4.8	5.4	9.1	5.6	2.7	2.0	0.8	-3.4	-1.0
29			1.4	4.9	5.2	9.2	5.9	2.7	1.9	0.9	-3.4	-0.9
30			1.2	5.0	7.0	9.2	6.0	2.6	1.8	0.9	-3.1	-0.8
31			1.2		7.3		5.7	2.5		1.0		-0.7

1899.

1	0.2	0.7	1.8	2.9	8.7	8.9	9.6	6.8	4.3	1.2	1.0	1.7
2	0.9	0.7	1.6	2.8	8.3	9.2	9.8	6.8	4.1	1.0	0.9	1.7
3	0.9	0.8	1.8	3.0	8.3	9.0	10.1	6.7	4.0	1.0	1.0	1.7
4	0.2	0.9	1.9	3.3	8.1	8.6	10.0	6.7	3.9	1.0	0.9	1.6
5	0.7	1.2	1.8	2.7	8.0	8.4	9.9	7.1	3.9	1.0	0.8	1.6
6	0.7	1.4	2.1	2.6	8.0	8.1	9.4	7.2	3.7	1.0	0.8	1.2
7	1.2	1.4	2.0	3.3	8.0	7.8	9.8	6.8	3.4	0.9	0.8	1.3
8	1.3	2.0	2.0	5.4	8.0	8.2	9.6	6.8	3.4	0.9	0.8	1.0
9	1.0	2.9	1.6	7.2	7.8	9.5	9.6	7.0	3.2	0.9	0.8	1.0
10	0.7	2.7	0.8	6.2	7.7	10.1	9.7	7.1	3.1	0.8	0.8	1.1
11	0.5	2.6	2.2	5.5	7.6	9.7	9.8	6.8	3.0	0.8	0.8	1.2
12	0.4	2.4	2.9	5.1	7.7	8.7	9.6	6.8	2.8	0.8	0.8	1.4
13	0.3	2.2	1.9	4.9	7.5	8.4	9.6	7.1	2.6	0.7	0.8	1.7
14	0.3	2.1	1.1	5.0	7.0	8.4	9.6	7.0	2.5	0.7	0.9	2.0
15	0.3	2.1	2.1	5.5	6.7	9.3	9.8	6.9	2.4	0.7	0.9	1.8
16	0.1	2.0	3.2	6.9	6.6	9.7	9.6	6.7	2.2	0.8	0.9	1.1
17	0.1	1.9	2.7	7.0	6.6	9.9	9.3	6.5	2.2	0.8	1.0	0.6
18	0.3	1.8	2.7	7.0	6.5	9.8	8.9	6.1	2.1	1.0	1.0	0.1
19	0.4	1.7	2.6	8.4	6.5	9.1	8.6	5.7	1.9	0.9	1.1	0.0
20	0.1	1.6	2.3	9.5	6.7	8.7	8.5	5.5	1.9	1.0	1.1	-0.2
21	0.0	1.8	2.2	10.0	7.9	8.2	8.4	5.4	1.8	0.9	1.2	-0.4
22	-0.1	0.9	2.2	10.8	8.0	7.9	8.1	5.7	1.7	0.9	1.3	-0.5
23	-0.1	2.0	2.2	11.2	7.6	7.9	7.8	5.6	1.7	0.8	1.4	-0.4
24	0.1	1.9	2.1	11.8	7.3	8.1	7.7	5.2	1.6	0.7	1.5	-0.1
25	0.0	2.0	1.9	12.2	7.2	8.4	7.5	5.2	1.6	0.7	1.5	-0.1
26	0.3	2.2	1.8	12.5	7.2	8.4	7.3	5.2	1.5	1.1	1.5	-0.2
27	-0.4	2.3	2.0	12.6	7.1	8.3	7.2	5.6	1.5	1.3	1.6	-0.8
28	-0.1	1.9	2.1	12.5	7.7	8.2	7.2	5.3	1.4	1.4	1.7	-1.0
29	-0.9		2.0	10.8	8.3	8.6	7.7	5.1	1.3	1.3	1.7	-1.1
30	-0.5		2.9	9.3	8.5	9.3	7.2	4.9	1.2	1.2	1.7	-1.1
31	0.1		3.3		8.6		7.0	4.6		1.0		-1.1

DAILY RIVER STAGES.

217

Missouri River system—Missouri River, Kansas City, Mo.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	5.0	7.2	8.2	9.8	13.6	18.1	12.7	10.2	7.6	7.5	4.6
2		5.5	7.1	8.1	9.8	14.0	18.5	12.5	8.3	7.5	7.5	4.3
3		5.8	7.0	7.3	10.9	16.0	18.2	13.4	8.4	7.4	9.4	4.1
4		5.6	7.4	8.5	10.8	15.0	18.5	13.6	8.2	7.4	9.1	3.7
5		5.5	7.6	9.1	10.9	14.6	18.9	13.3	8.0	7.4	8.9	3.4
6		5.3	7.6	9.1	11.0	14.6	19.1	12.7	8.0	7.4	8.7	3.1
7		5.2	7.3	9.9	11.8	13.2	18.4	13.2	8.1	7.3	8.6	2.8
8		5.3	7.2	14.7	11.8	14.1	17.4	13.0	7.8	7.2	8.4	4.1
9		5.3	6.6	15.8	11.4	14.4	16.7	12.7	7.8	7.2	8.0	4.7
10		5.4	5.0	16.0	11.0	16.0	16.6	12.2	7.8	7.3	8.0	5.3
11		5.9	4.8	14.2	11.1	14.6	16.0	11.7	7.8	7.3	7.7	5.8
12		6.1	4.5	12.9	10.9	14.6	15.3	11.6	7.8	7.3	7.6	6.1
13		6.5	4.4	13.1	11.5	14.4	15.7	11.3	7.8	7.3	7.5	6.1
14	4.6	6.7	4.3	12.7	11.6	17.2	15.5	11.2	8.0	7.3	7.4	6.0
15	4.5	6.5	4.7	12.4	9.7	18.0	15.7	11.2	8.0	7.3	7.1	6.0
16	4.6	6.4	5.3	12.2	13.1	18.3	15.5	10.7	8.2	7.3	6.7	6.4
17	4.4	6.4	4.9	12.3	14.6	18.8	14.4	10.6	8.2	7.3	6.6	7.0
18	4.3	6.8	4.7	11.9	14.8	18.4	14.1	11.5	9.4	7.3	6.5	7.3
19	4.3	6.0	4.8	12.1	15.5	17.7	15.6	11.5	9.0	7.2	6.3	7.5
20	4.4	5.7	5.6	11.6	16.1	16.6	16.6	11.7	8.7	7.1	6.1	7.8
21	4.4	5.5	5.9	11.7	18.1	16.3	17.1	12.3	8.7	7.1	6.0	8.0
22	4.3	5.4	5.5	11.4	19.2	16.4	16.0	12.4	8.7	7.1	6.0	7.5
23	4.2	5.4	5.3	11.2	18.6	17.0	15.1	11.6	9.4	7.0	5.8	7.5
24	4.6	5.3	5.4	11.2	17.5	17.3	14.1	10.9	9.0	6.9	5.7	7.3
25	4.8	5.2	6.5	11.1	16.4	17.0	13.7	11.0	9.0	6.9	5.4	7.0
26	Frozen.	5.3	10.3	11.0	15.1	17.0	13.3	10.8	9.0	6.9	5.2	7.0
27		5.4	9.3	11.1	14.1	17.1	12.7	10.7	8.8	6.8	5.0	6.7
28		5.9	8.8	10.9	13.0	18.1	12.6	10.3	8.0	6.8	4.9	6.5
29		6.3	8.7	10.8	13.0	18.3	12.7	10.3	7.7	6.8	4.8	6.5
30	4.6		8.6	10.2	12.5	18.3	12.8	10.3	7.7	7.0	4.7	6.5
31	4.8		8.2		12.3		12.7	10.2		7.5		6.5

1897.

1	6.5	10.4	9.2	14.6	20.3	16.0	17.5	10.0	6.8	5.0	5.0	4.5
2	6.5	10.9	9.2	14.6	19.2	16.9	18.0	9.8	6.8	4.8	5.1	3.8
3	6.5	11.0	8.0	15.8	18.5	16.9	17.6	9.5	6.5	5.0	5.3	3.6
4	6.5	11.1	7.9	16.6	17.7	17.3	16.4	10.0	6.2	4.8	5.3	2.9
5	6.8	11.1	7.6	17.4	16.5	17.3	16.4	10.0	6.0	4.8	5.6	Frozen.
6	7.2	11.3	7.7	18.5	15.7	17.6	17.6	9.6	6.0	4.9	6.0	
7	7.2	11.2	8.0	19.8	15.2	17.0	17.6	9.3	5.9	4.6	6.2	2.0
8	7.2	11.2	7.5	20.4	14.8	16.7	16.2	9.1	5.7	4.8	6.2	2.0
9	7.2	10.7	7.5	20.3	14.6	16.3	15.3	8.9	5.6	4.8	6.1	2.1
10	7.2	10.5	7.5	20.1	14.4	16.1	15.0	8.8	5.6	4.8	6.1	2.1
11	7.2	10.3	8.0	20.1	14.2	16.6	15.0	8.8	5.5	5.2	6.0	3.1
12	7.2	10.3	8.4	19.8	14.0	16.9	15.0	8.8	5.5	5.2	5.9	3.1
13	7.4	10.3	8.8	19.6	13.7	16.0	14.1	8.7	5.4	5.0	5.9	3.3
14	7.8	10.4	9.0	20.5	13.5	16.2	13.5	8.5	5.2	4.9	5.8	3.5
15	8.1	10.4	9.9	21.3	13.3	16.2	13.8	8.5	5.2	4.9	5.8	3.5
16	8.7	10.0	10.0	21.4	13.1	16.4	14.2	8.5	5.2	4.8	5.8	3.1
17	8.7	10.9	9.7	21.8	12.9	15.9	14.2	8.5	5.1	5.0	5.9	3.3
18	8.5	10.5	9.8	22.1	12.8	15.5	13.3	8.5	5.0	4.9	5.8	3.0
19	8.1	9.2	10.3	¹ 22.1	12.8	15.2	12.2	8.5	5.1	4.9	5.8	2.8
20	7.5	8.8	12.0	22.6	13.0	14.7	12.0	8.7	5.0	5.0	5.8	Frozen.
21	7.5	10.2	11.7	22.3	13.3	14.7	12.0	8.7	5.2	5.1	5.6	
22	7.5	10.9	12.0	21.0	13.5	14.2	12.0	8.7	5.0	5.1	5.7	
23	7.5	10.0	14.9	20.2	13.7	13.9	12.0	8.6	5.3	5.0	5.8	
24	7.5	9.2	17.2	20.1	14.1	13.9	11.2	8.3	5.1	5.1	5.8	
25	7.5	9.2	18.2	20.7	14.1	13.9	11.0	8.0	5.3	5.1	5.6	
26	6.9	9.2	17.2	22.1	14.1	14.5	11.0	7.8	5.4	5.0	5.7	4.0
27	6.5	9.2	16.3	22.6	14.8	16.0	10.3	7.8	5.4	5.1	5.7	4.3
28	7.7	9.2	15.8	21.9	13.6	15.8	9.8	7.5	5.1	5.1	5.6	4.7
29	8.2		15.6	21.7	13.5	15.8	10.0	7.5	5.2	5.0	5.5	5.0
30	8.8		15.2	21.5	13.5	16.9	10.0	7.5	5.1	4.9	5.4	5.2
31	9.7		14.9		14.2		10.0	7.2		5.0		5.1

¹ 22.8 during day.

DAILY RIVER STAGES.

Missouri River system—Missouri River, Kansas City, Mo.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.1	5.2	7.6	6.6	12.2	16.9	18.4	11.9	7.1	6.8	6.1	5.6
2	4.9	5.3	7.5	6.4	13.9	17.5	18.6	11.6	7.2	6.7	6.3	5.8
3	5.1	5.1	7.4	6.6	14.8	17.6	18.9	11.4	7.1	6.6	6.2	5.9
4	5.3	4.9	7.4	7.2	12.8	17.2	18.5	11.1	7.0	6.5	5.9	6.0
5	5.4	5.0	7.4	8.0	11.9	17.0	19.7	11.0	7.2	6.4	6.0	5.8
6	5.4	5.1	7.4	8.7	11.7	17.1	19.4	10.6	7.3	6.3	6.3	5.0
7	5.4	5.1	7.3	8.2	11.6	17.9	19.2	10.6	8.7	6.2	6.1	5.2
8	5.1	5.0	7.8	7.8	11.9	19.2	19.1	10.4	8.5	6.1	6.0	5.5
9	5.0	5.0	7.4	7.5	11.6	20.1	18.6	10.7	9.5	6.0	6.1	5.4
10	5.0	5.2	7.2	7.5	11.4	21.0	18.2	10.6	8.9	6.0	6.1	4.7
11	4.9	5.6	7.4	7.6	10.9	21.4	18.4	10.3	8.2	5.8	6.0	4.2
12	4.9	5.9	7.6	7.7	10.6	21.5	17.2	10.0	8.0	6.0	5.8	4.0
13	5.1	6.3	9.5	7.8	10.4	21.3	16.5	10.2	7.5	5.9	6.0	4.6
14	4.9	6.8	8.5	7.7	10.9	20.6	15.7	10.0	8.0	5.7	5.9	5.2
15	5.0	7.6	7.8	7.5	13.2	20.2	15.3	9.7	8.2	5.7	6.0	5.4
16	5.0	7.9	7.2	7.5	14.7	20.7	15.0	9.5	8.1	5.2	5.9	5.1
17	4.9	8.2	7.3	7.4	13.8	20.4	14.3	10.0	7.8	5.3	6.0	5.2
18	4.8	9.2	7.6	7.3	13.7	19.6	14.0	9.8	7.6	7.0	5.8	5.5
19	5.0	7.1	8.3	7.5	13.3	18.8	13.7	9.0	7.2	7.6	6.0	5.7
20	5.1	7.5	8.7	7.3	14.3	18.5	13.7	8.8	7.0	7.4	6.1	6.2
21	5.2	7.2	8.2	7.4	13.7	18.0	13.6	8.7	7.1	7.1	6.1	6.8
22	5.3	7.0	8.3	7.5	13.7	17.0	13.4	8.5	7.2	6.9	6.5	7.7
23	5.3	7.1	7.9	13.2	13.8	16.7	13.1	8.2	7.2	6.7	6.5	7.8
24	5.2	7.3	7.8	14.2	13.8	16.6	12.8	8.2	7.0	6.4	5.9	8.1
25	5.3	7.6	7.5	13.0	14.1	16.6	12.6	8.4	7.2	6.2	5.8	8.0
26	5.4	7.5	7.1	11.9	14.0	16.8	12.5	8.2	7.3	6.0	6.4	7.9
27	5.4	7.6	7.4	11.2	13.5	17.5	12.2	8.0	7.2	6.7	6.2	8.0
28	5.3	7.6	7.4	10.8	13.7	18.5	11.9	7.8	7.2	6.5	6.1	7.5
29	5.2	.....	8.1	10.7	14.6	19.0	12.1	7.7	7.1	6.3	5.4	7.3
30	5.2	.....	7.6	11.3	15.2	18.7	12.4	7.6	7.0	6.1	5.6	7.5
31	5.3	.....	6.9	.....	16.7	.....	12.6	7.3	.....	6.3	.....	7.0

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.3	Frozen.	8.2	9.4	18.6	18.2	20.0	16.1	10.0	5.8	6.1	6.7
2	7.0	.....	8.3	9.1	17.5	18.6	20.2	15.8	9.6	5.7	6.0	6.6
3	7.5	.....	7.0	9.4	16.8	18.3	20.4	15.3	9.4	5.6	5.8	6.6
4	7.7	.....	6.2	9.1	16.4	17.6	20.9	15.0	9.2	5.5	5.7	6.6
5	7.6	.....	6.3	9.3	16.2	17.3	20.8	14.7	9.0	5.5	5.8	6.4
6	7.6	.....	6.0	9.5	15.8	18.0	21.0	14.6	8.8	5.6	5.7	6.4
7	7.4	.....	7.0	9.2	15.9	17.4	21.7	14.1	8.7	5.6	5.6	6.2
8	7.3	.....	6.8	10.2	15.7	16.6	22.1	15.0	8.5	5.5	5.6	6.1
9	7.1	.....	6.3	13.2	15.8	18.2	22.2	14.8	8.4	5.4	5.7	6.0
10	7.2	.....	6.8	14.9	15.5	20.6	21.4	14.9	8.3	5.4	5.6	6.0
11	7.1	.....	7.0	13.2	15.3	21.4	21.3	14.7	8.1	5.4	5.6	6.1
12	6.9	.....	9.2	12.4	15.8	21.0	21.2	13.9	7.9	5.5	5.6	6.1
13	7.6	.....	10.5	11.8	15.7	19.4	20.8	13.6	7.7	5.4	5.5	6.2
14	6.5	.....	10.4	11.6	15.4	18.6	20.6	14.1	7.6	5.4	5.6	6.3
15	6.8	.....	9.4	11.6	14.4	19.1	20.8	14.1	7.3	5.3	5.7	6.3
16	7.0	.....	8.7	12.6	13.9	19.8	20.8	13.9	7.2	5.3	5.6	9.5
17	6.2	.....	9.5	14.5	13.6	20.4	20.6	13.6	7.2	5.3	5.7	12.0
18	6.0	7.0	10.7	14.2	13.3	20.6	20.0	13.3	7.3	5.4	5.6	12.1
19	5.5	7.1	10.4	15.4	13.2	19.9	19.4	13.1	7.0	5.5	5.9	10.0
20	5.4	7.3	10.1	17.8	13.5	19.0	18.6	12.0	6.8	5.5	5.8	9.0
21	5.6	7.3	9.2	19.9	14.9	18.2	18.3	11.5	6.7	5.5	6.1	8.6
22	5.9	7.5	8.9	20.2	17.0	17.6	18.4	11.5	6.5	5.4	6.2	8.5
23	6.0	7.6	8.6	20.9	18.0	17.1	17.8	11.6	6.4	5.4	6.5	8.1
24	5.7	7.5	8.3	21.7	17.7	17.4	17.4	11.4	6.4	5.4	6.5	7.8
25	5.5	7.5	8.2	22.2	16.9	17.9	17.0	11.0	6.3	5.5	6.5	7.5
26	5.5	7.6	8.1	22.5	16.1	18.3	16.7	10.9	6.3	5.4	6.5	7.5
27	5.6	7.7	8.0	22.8	15.7	18.1	16.4	11.1	6.2	5.6	6.5	7.0
28	6.1	7.7	7.8	23.2	15.8	17.6	16.1	11.5	6.1	6.0	6.5	6.6
29	5.7	.....	8.1	23.2	16.9	18.4	16.3	10.9	6.0	6.0	6.5	6.0
30	5.6	.....	8.0	21.3	17.4	19.1	16.9	10.7	5.9	5.9	6.4	5.5
31	Frozen.	.....	9.5	.....	17.7	.....	16.5	10.4	.....	5.8	.....	5.2

123.3 at 6 p. m.

DAILY RIVER STAGES.

219

*Missouri River system—Missouri River, Boonville, Mo.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.5	4.2	6.0	7.0	8.5	12.9	14.6	11.4	8.0	7.5	6.5	6.3
2	5.1	4.7	6.4	6.6	8.3	12.8	14.9	11.2	7.8	7.4	6.5	5.8
3	4.7	5.0	6.4	6.4	8.0	14.1	15.2	11.0	7.6	7.3	7.7	5.4
4	3.5	5.9	6.2	6.4	7.9	15.0	15.0	11.2	7.4	7.3	9.8	4.9
5	2.9	6.0	6.0	6.4	8.3	14.5	14.9	11.5	7.3	7.2	9.5	4.5
6	2.2	6.0	6.0	6.8	8.7	13.8	15.4	11.5	7.3	7.1	9.4	4.4
7	1.9	5.9	5.9	7.1	8.8	12.6	16.0	11.2	7.2	6.9	9.1	4.4
8	1.7	5.8	5.7	9.0	9.0	12.3	15.6	11.1	7.1	6.8	8.8	4.6
9	1.5	5.6	5.3	12.8	9.5	12.5	14.9	11.1	7.0	6.8	8.5	5.0
10	1.5	5.7	4.9	13.4	9.1	12.6	14.0	11.0	6.9	6.8	8.2	5.4
11	1.6	5.8	4.5	13.7	8.8	13.6	13.9	10.9	6.8	6.7	7.9	5.5
12	1.8	5.8	4.3	12.7	8.7	12.8	13.7	10.6	7.0	6.7	7.6	5.4
13	2.1	6.1	4.2	12.0	8.7	12.1	13.1	10.1	7.0	6.7	7.3	5.3
14	2.4	6.4	4.1	11.6	8.6	11.6	13.0	10.6	7.0	6.7	7.0	5.2
15	2.7	6.7	4.1	11.2	8.5	12.7	12.8	9.8	6.9	6.8	6.9	5.3
16	3.0	6.8	4.0	10.9	8.8	14.5	13.0	9.9	6.9	6.8	6.8	5.3
17	3.3	6.7	4.0	10.6	10.7	14.7	12.9	9.9	6.9	6.8	6.8	5.4
18	3.6	6.4	3.9	10.3	11.7	14.9	12.8	9.8	6.9	6.7	6.7	5.5
19	3.7	6.2	3.9	10.1	12.5	15.0	12.5	9.9	8.4	6.7	6.5	5.7
20	3.8	5.9	3.8	9.8	15.0	14.6	14.2	10.4	8.8	6.7	6.1	5.8
21	3.7	5.3	3.9	9.5	16.2	14.0	15.3	10.9	8.9	6.6	5.9	6.0
22	3.8	5.0	4.3	9.3	17.0	13.4	16.2	10.8	8.8	6.5	5.6	6.1
23	4.0	4.9	4.7	9.3	17.9	13.2	15.8	10.8	9.0	6.4	5.5	6.3
24	3.8	4.8	4.9	9.2	18.2	13.3	14.0	10.7	8.9	6.3	5.4	6.5
25	4.0	4.6	4.8	9.0	17.6	13.7	13.0	10.2	8.9	6.3	5.3	5.8
26	4.0	4.5	5.1	8.9	16.6	13.8	12.1	10.0	8.6	6.3	5.2	5.2
27	4.1	4.8	7.3	8.8	15.1	13.9	11.9	9.7	8.5	6.3	5.2	5.2
28	4.0	5.4	8.3	8.8	13.9	14.1	11.9	9.2	8.0	6.3	5.3	5.2
29	3.8	5.8	7.7	8.8	12.9	14.3	11.8	9.0	7.8	6.3	5.5	5.2
30	3.8	-----	7.1	8.7	12.4	14.5	11.7	8.7	7.6	6.3	5.9	5.2
31	4.1	-----	7.0	-----	12.6	-----	11.6	8.4	-----	6.5	-----	5.2

1897.

1	5.2	3.6	7.7	13.5	19.6	11.5	15.1	9.1	7.5	4.6	4.2	4.5
2	5.2	3.8	7.6	13.9	19.1	12.5	16.1	8.9	7.4	4.5	4.1	4.2
3	8.2	4.3	7.6	14.3	18.2	13.5	16.5	8.7	7.3	4.5	4.1	3.9
4	9.6	4.7	7.6	14.8	17.0	13.9	15.8	8.5	7.2	4.4	4.1	3.6
5	10.2	5.4	9.0	16.5	16.6	14.3	14.7	8.4	7.1	4.4	4.3	3.3
6	9.0	6.0	10.3	16.7	15.6	14.5	14.8	8.3	7.0	4.3	4.6	3.0
7	8.0	6.4	10.7	17.4	14.7	14.3	15.7	9.1	6.9	4.3	4.9	2.7
8	7.5	6.5	9.4	18.3	13.2	14.2	15.3	9.5	6.8	4.3	5.1	1.9
9	7.1	6.6	8.7	18.9	13.0	14.0	14.8	8.8	6.7	4.2	5.2	2.2
10	6.3	6.6	8.3	19.0	12.8	13.8	13.9	8.4	6.6	4.2	5.2	2.4
11	5.7	6.7	8.1	18.6	12.4	13.5	13.6	8.2	6.5	4.1	5.1	2.5
12	5.2	6.8	8.0	18.2	12.1	13.2	13.3	8.1	6.4	4.0	5.0	2.5
13	4.8	7.2	8.2	17.4	12.0	13.2	12.7	8.1	6.3	4.0	4.9	2.6
14	4.7	8.0	8.3	16.6	11.8	13.2	11.9	8.0	6.1	3.9	4.8	2.7
15	4.8	8.4	9.0	16.9	11.5	13.4	11.5	7.9	6.0	3.9	4.7	2.8
16	5.2	7.6	9.4	17.6	11.4	13.7	12.0	7.9	5.9	3.8	4.7	2.9
17	5.5	7.2	9.3	17.9	11.2	13.6	12.4	7.8	5.8	3.8	4.7	2.5
18	7.8	7.7	9.2	18.1	11.0	13.1	11.9	7.7	5.7	3.8	4.8	2.2
19	8.6	8.6	9.1	18.5	10.8	12.7	11.4	7.7	5.6	3.8	4.8	1.3
20	8.7	9.0	9.0	18.7	10.7	12.3	10.9	7.7	5.5	3.8	4.8	0.9
21	8.6	8.6	10.0	18.9	10.6	12.1	10.3	7.7	5.4	3.9	4.9	1.0
22	8.4	9.4	10.7	18.7	10.6	12.0	9.9	7.7	5.5	3.9	4.8	1.0
23	8.1	9.3	11.1	18.0	10.9	11.9	9.9	7.6	5.4	4.0	4.8	1.2
24	7.8	9.8	13.0	17.0	11.9	11.7	9.8	7.6	5.3	4.1	4.8	1.5
25	7.5	9.4	14.9	16.9	12.4	12.2	10.0	7.6	5.2	4.2	4.8	2.0
26	7.3	8.9	15.3	18.3	12.1	12.6	9.6	7.6	5.1	4.2	4.8	2.5
27	6.8	8.5	14.8	18.8	12.2	13.4	9.5	7.5	5.0	4.3	4.9	2.6
28	5.8	8.1	14.2	19.7	12.6	15.4	9.3	7.5	4.9	4.4	4.9	3.0
29	4.6	-----	13.8	20.0	12.4	15.8	9.4	7.4	4.8	4.3	4.8	3.6
30	3.8	-----	13.5	19.7	11.6	14.7	9.3	7.4	4.7	4.3	4.7	3.6
31	3.7	-----	13.2	-----	11.4	-----	9.2	7.3	-----	4.2	-----	3.6

DAILY RIVER STAGES.

Missouri River system—Missouri River, Boonville, Mo.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.6	4.5	6.6	9.8	9.8	14.7	16.9	10.9	6.3	5.8	6.3	3.2
2	3.2	4.4	6.6	8.3	12.5	15.5	16.0	10.7	6.2	5.7	5.9	3.1
3	3.5	4.0	6.5	7.3	14.8	16.3	15.7	10.2	6.1	5.6	5.7	3.2
4	3.5	3.8	6.4	6.9	14.9	16.1	15.5	10.0	6.0	5.5	5.6	3.2
5	3.5	3.7	6.3	6.6	14.0	16.0	16.0	9.7	5.9	5.5	5.6	3.1
6	3.5	3.5	6.3	7.0	12.5	15.5	16.4	9.4	6.0	5.4	5.6	3.0
7	3.6	3.9	6.3	8.3	11.8	15.1	16.5	9.2	6.3	5.3	5.7	2.9
8	3.9	4.6	6.4	8.8	11.6	15.5	16.2	9.0	6.6	5.1	5.7	2.8
9	4.1	5.6	6.6	8.4	11.5	16.7	16.1	8.9	9.6	5.0	5.6	2.6
10	4.9	6.2	6.6	7.6	11.2	17.6	16.0	8.9	9.7	5.3	5.6	2.2
11	4.5	7.0	7.5	7.2	10.7	18.4	15.8	9.0	9.3	6.3	5.5	1.8
12	4.9	7.4	8.7	7.2	10.4	18.9	15.7	9.1	8.2	5.5	5.4	1.9
13	5.0	7.3	9.2	7.0	10.3	19.0	15.4	9.0	7.8	5.1	5.3	2.1
14	4.9	6.9	9.2	7.0	10.2	19.1	14.4	8.9	8.4	4.9	5.2	1.7
15	4.7	6.7	9.3	7.1	11.0	19.3	13.5	8.7	8.8	4.8	5.1	3.4
16	3.9	6.6	8.9	7.1	13.9	19.0	13.0	8.5	8.9	4.7	5.0	4.4
17	3.8	7.0	8.2	7.0	16.0	18.8	12.9	8.4	9.1	5.1	4.9	3.2
18	3.8	7.4	7.5	6.9	16.2	18.8	12.4	8.2	9.3	7.1	4.8	2.7
19	3.7	7.5	7.4	6.8	14.5	17.6	12.0	7.9	8.8	9.1	4.8	3.8
20	3.6	8.0	8.4	6.6	15.7	16.6	11.9	7.8	8.0	9.7	4.7	4.6
21	3.6	7.3	10.0	6.6	16.9	16.0	11.7	7.9	7.4	10.1	4.6	5.0
22	3.8	6.8	10.4	6.6	16.8	15.5	11.5	7.8	7.0	10.0	5.2	5.5
23	4.2	6.6	10.7	6.6	16.0	14.8	11.6	7.6	6.4	9.7	6.7	7.6
24	4.4	6.4	10.5	9.7	15.4	14.0	11.4	7.4	6.3	8.0	7.1	8.2
25	4.7	6.4	9.3	12.6	16.3	13.6	11.2	7.2	6.2	7.1	6.6	7.8
26	5.2	6.4	8.4	12.3	15.1	13.9	10.7	7.0	6.0	7.7	5.1	7.7
27	5.6	6.5	8.9	11.5	14.8	15.3	10.6	7.4	5.8	9.0	4.2	7.2
28	5.2	6.6	9.5	10.7	13.5	16.3	10.4	7.2	5.9	9.2	3.7	6.9
29	4.8	-----	10.8	9.9	12.9	17.0	10.2	6.9	6.1	8.6	3.3	6.4
30	4.7	-----	11.1	9.6	13.4	17.2	10.2	6.6	5.9	8.3	3.2	6.0
31	4.6	-----	10.8	-----	13.6	-----	10.5	6.4	-----	6.9	-----	5.5

1899.

1	5.1	4.8	8.8	7.0	19.7	16.1	15.1	13.7	9.3	5.7	5.0	5.5
2	4.1	4.7	8.6	7.3	17.7	16.2	15.1	13.4	9.1	5.7	5.0	5.5
3	3.7	4.3	8.0	8.2	15.9	16.4	15.7	13.3	8.9	5.6	5.0	5.4
4	4.3	4.2	7.6	8.3	14.5	16.5	16.2	13.2	8.6	5.5	5.0	5.4
5	5.5	4.3	6.9	8.7	13.5	16.0	16.6	12.8	8.4	5.5	5.0	5.4
6	5.0	4.8	6.8	9.1	13.3	15.3	17.0	12.6	8.2	5.4	5.0	5.4
7	4.6	5.4	7.8	9.2	13.8	15.4	17.2	12.5	8.1	5.4	5.0	5.3
8	4.5	5.9	8.2	9.3	13.4	15.5	17.1	13.1	7.9	5.4	5.0	5.3
9	4.4	6.1	7.8	9.7	13.3	15.4	16.8	12.9	7.7	5.3	4.9	5.2
10	4.4	6.9	7.4	12.1	13.1	15.9	18.1	12.6	7.5	5.3	4.9	5.2
11	4.4	7.3	7.0	14.0	12.9	17.8	17.5	12.9	7.4	5.2	4.9	5.2
12	4.4	7.7	7.3	13.5	13.5	18.3	17.2	13.0	7.3	5.2	4.9	5.2
13	4.5	7.3	9.1	12.4	13.4	18.1	17.1	13.1	7.2	5.1	4.8	5.2
14	4.5	7.0	11.0	11.8	13.4	17.8	16.9	12.8	7.0	5.1	4.8	5.2
15	4.5	6.7	11.5	11.0	13.1	16.6	16.9	12.5	6.9	5.0	4.8	5.1
16	4.6	6.4	11.1	10.7	13.0	16.7	16.8	12.2	6.8	5.0	4.8	5.1
17	5.0	6.1	10.1	10.5	12.0	16.9	16.8	11.9	6.7	5.0	4.9	4.9
18	5.0	5.8	10.7	12.0	11.7	17.2	17.0	11.6	6.6	5.0	4.9	4.7
19	4.5	5.5	11.9	12.6	11.7	17.3	16.6	11.3	6.5	5.0	4.9	4.4
20	4.4	5.2	11.4	13.0	12.0	16.9	16.3	11.0	6.2	5.0	5.0	4.1
21	4.4	4.9	11.0	15.5	13.0	16.0	16.6	10.7	6.1	4.9	5.0	3.8
22	4.4	6.1	10.6	17.1	14.0	15.4	15.3	10.3	6.1	4.9	5.1	3.5
23	4.4	7.2	9.8	17.9	15.5	15.0	15.0	9.8	6.0	4.9	5.2	3.2
24	4.4	8.3	9.0	18.7	16.2	14.3	14.8	9.4	5.9	4.9	5.3	3.1
25	4.3	8.2	8.5	18.9	16.1	14.2	14.4	9.4	5.9	4.9	5.3	3.2
26	4.3	11.3	8.0	19.0	15.9	14.6	14.2	9.4	5.9	4.9	5.4	3.3
27	4.3	12.2	7.5	19.3	15.2	14.8	14.0	9.3	5.9	4.9	5.4	3.5
28	4.1	11.8	7.1	19.4	15.0	14.9	13.7	9.3	5.8	4.9	5.3	3.6
29	3.7	-----	6.9	19.7	15.0	14.7	13.5	9.4	5.8	5.0	5.4	3.9
30	4.2	-----	6.8	20.0	15.4	14.8	13.3	9.7	5.7	5.0	5.5	4.2
31	5.0	-----	6.9	-----	15.5	-----	13.8	9.5	-----	5.0	-----	5.3

DAILY RIVER STAGES.

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Missouri River system—Missouri River, Hermann, Mo.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	9.9	2.1	2.2	4.4	8.5	13.5	11.6	7.4	4.2	3.1	1.2	1.3
2.....	9.3	2.2	2.4	4.2	8.1	13.9	11.5	7.3	3.9	2.9	1.4	2.3
3.....	8.5	2.3	2.7	4.0	7.8	13.6	11.4	7.1	3.7	2.7	1.8	2.2
4.....	7.6	2.8	2.9	3.7	7.3	14.3	11.4	6.9	3.5	2.5	3.9	1.5
5.....	6.7	3.4	2.9	3.5	6.7	14.7	11.3	6.8	3.3	2.4	4.8	0.4
6.....	5.9	3.9	2.7	3.4	6.4	14.2	11.1	7.2	3.2	2.2	5.0	0.1
7.....	5.0	3.8	2.5	3.4	6.3	13.6	11.6	7.4	3.2	2.1	4.7	-0.2
8.....	4.3	3.6	2.4	3.6	6.3	13.5	12.0	7.2	3.0	2.0	4.3	-0.5
9.....	3.1	3.4	2.3	4.9	6.7	12.7	11.8	6.9	2.9	1.9	4.0	-0.6
10.....	1.9	3.2	2.0	9.2	7.0	12.5	11.0	6.9	2.7	1.8	3.6	-0.3
11.....	1.2	2.9	1.5	9.9	6.8	12.3	10.4	6.8	2.7	2.0	3.3	0.3
12.....	0.9	2.8	0.9	9.8	6.3	12.1	10.0	6.8	2.6	2.0	3.0	0.6
13.....	0.8	5.0	0.6	9.3	5.8	10.7	9.7	6.5	2.9	1.9	2.7	0.7
14.....	0.8	5.7	0.4	8.9	5.7	9.5	9.1	6.2	3.1	1.8	2.4	0.6
15.....	0.7	5.1	0.2	8.7	5.5	8.9	8.8	5.8	3.0	1.9	2.1	0.5
16.....	0.5	5.1	0.1	8.6	5.6	9.8	8.9	5.7	2.9	1.9	2.0	0.4
17.....	0.5	5.0	-0.1	8.3	6.4	11.2	9.3	5.6	2.8	1.9	1.9	0.4
18.....	0.7	4.9	-0.2	7.7	9.8	11.5	9.0	5.5	2.7	1.9	1.7	0.5
19.....	1.0	4.5	-0.2	7.4	12.4	11.5	9.2	5.3	2.9	1.8	1.4	0.7
20.....	0.9	4.0	-0.1	7.3	15.3	11.4	9.2	5.5	3.2	1.8	1.0	0.9
21.....	0.9	3.5	-0.1	6.9	15.8	10.9	12.6	6.3	4.1	1.7	0.8	1.1
22.....	0.7	3.0	-0.1	6.6	16.2	10.4	13.3	7.0	4.6	1.6	0.6	1.3
23.....	0.8	2.6	0.4	6.2	17.4	10.4	13.1	6.7	4.6	1.4	0.4	1.4
24.....	1.4	2.4	2.1	6.3	18.3	10.0	12.6	6.8	4.6	1.3	0.3	1.8
25.....	1.3	2.0	4.0	6.3	18.9	9.8	11.4	7.0	4.7	1.2	0.3	1.8
26.....	1.1	1.8	4.3	7.0	18.5	10.2	10.3	6.6	4.6	1.1	0.3	1.6
27.....	1.2	1.6	4.9	7.1	17.8	10.4	9.2	5.9	4.4	1.0	0.2	1.5
28.....	1.2	1.5	5.2	7.5	16.4	11.3	8.6	5.5	4.1	1.0	0.1	1.3
29.....	1.2	1.9	6.2	8.3	15.2	10.6	8.2	5.2	3.8	0.9	0.2	1.2
30.....	1.3	.....	5.8	8.6	14.1	11.1	7.8	4.8	3.4	0.9	0.2	1.2
31.....	1.5	.....	5.0	.....	13.3	.....	7.6	4.5	.....	0.9	.....	1.1

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	1.0	Frozen.	5.7	12.9	15.8	7.4	12.4	4.8	1.6	-0.8	-1.1	-0.7
2.....	1.2	.....	5.3	14.0	15.5	7.5	12.6	4.5	1.4	-0.9	-1.2	-1.0
3.....	11.6	.....	6.0	12.5	15.2	8.7	13.5	4.3	1.3	-0.9	-1.3	-1.2
4.....	14.3	.....	6.2	12.3	14.3	9.5	13.4	4.1	1.1	-1.0	-1.4	-1.6
5.....	13.3	.....	11.3	12.6	13.2	10.0	12.4	4.0	1.0	-1.1	-1.4	-2.4
6.....	13.5	.....	12.6	12.8	12.3	10.3	11.9	3.8	0.9	-1.1	-1.3	-2.7
7.....	13.2	.....	12.5	12.9	11.3	10.3	11.6	4.1	0.8	-1.2	-1.0	-3.0
8.....	12.3	6.2	12.3	13.2	10.5	10.2	12.4	5.0	0.6	-1.2	-0.6	-3.2
9.....	10.3	6.9	12.0	15.0	9.9	10.0	12.0	4.9	0.5	-1.3	-0.4	-3.2
10.....	8.2	6.8	11.8	15.5	9.6	9.8	10.7	4.3	0.4	-1.4	-0.2	-3.1
11.....	6.2	5.8	11.2	15.3	9.2	9.5	10.2	4.1	0.3	-1.4	-0.2	-3.0
12.....	4.9	5.7	10.8	15.0	8.9	9.2	9.2	3.7	0.2	-1.4	-0.2	-2.8
13.....	4.1	6.0	10.2	14.1	8.6	8.9	8.5	3.6	0.1	-1.4	-0.3	-2.3
14.....	3.7	7.2	9.3	13.6	8.6	8.9	8.0	3.6	0.0	-1.5	-0.4	-1.8
15.....	3.5	8.1	8.4	13.0	8.5	8.8	7.4	3.6	-0.1	-1.5	-0.4	-1.5
16.....	3.3	7.8	7.8	13.2	8.0	8.9	7.1	3.4	-0.2	-1.5	-0.5	-1.4
17.....	4.1	6.8	7.3	13.5	7.7	9.2	7.5	3.2	-0.2	-1.5	-0.5	-1.6
18.....	5.7	6.4	6.7	13.6	7.5	9.1	7.6	3.1	-0.1	-1.6	-0.6	-1.9
19.....	6.3	6.3	6.7	13.5	7.2	8.7	7.1	3.0	-0.2	-1.6	-0.6	-2.9
20.....	6.7	6.6	7.1	13.8	7.0	8.6	6.6	3.0	-0.3	-1.6	-0.6	-3.1
21.....	7.0	6.6	7.3	13.9	6.8	8.0	6.2	3.0	-0.4	-1.6	-0.6	-3.3
22.....	7.0	8.4	8.4	14.1	6.8	8.3	5.9	3.0	-0.4	-1.6	-0.5	-3.6
23.....	6.9	8.5	9.0	14.0	6.8	8.2	5.7	3.0	-0.3	-1.6	-0.5	-3.5
24.....	6.6	8.5	8.6	13.3	7.4	7.8	5.7	2.9	-0.3	-1.5	-0.5	-3.5
25.....	6.1	8.5	10.2	12.8	8.3	9.1	6.2	2.7	-0.3	-1.4	-0.5	-2.0
26.....	5.6	8.0	11.2	12.8	8.4	9.2	6.5	2.5	-0.4	-1.3	-0.5	-2.5
27.....	5.3	7.1	11.4	13.4	8.6	9.8	5.9	2.3	-0.5	-1.3	-0.4	-2.2
28.....	Frozen.	6.3	11.0	14.2	8.6	11.5	5.4	2.2	-0.6	-1.3	-0.4	-1.9
29.....	.....	.....	10.3	15.3	9.2	13.2	5.1	2.0	-0.7	-1.2	-0.5	-2.0
30.....	.....	.....	9.9	15.8	8.5	12.7	4.9	1.9	-0.8	-1.2	-0.5	-1.8
31.....	.....	.....	9.7	.....	7.8	.....	4.9	1.7	.....	-1.1	.....	-1.6

NOTE.—See gage description for corrections to be applied.

DAILY RIVER STAGES.

Missouri River system—Missouri River, Hermann, Mo.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.3	4.4	5.3	13.1	9.6	14.0	17.2	10.0	5.6	5.7	6.8	4.2
2	2.3	4.1	5.2	11.2	11.6	14.7	16.6	11.4	5.4	5.5	6.1	3.9
3	2.3	4.1	5.1	9.7	13.4	15.1	15.7	11.3	5.3	5.3	5.7	3.6
4	2.2	3.5	5.1	8.6	15.1	15.6	15.4	11.0	5.2	5.1	5.3	3.6
5	2.4	3.1	5.0	8.8	15.5	16.0	15.4	10.6	5.1	4.9	5.2	3.7
6	2.4	2.8	5.0	9.6	15.3	15.6	15.8	9.9	5.0	4.7	5.2	3.6
7	2.2	2.6	5.0	9.4	15.0	14.9	16.1	9.4	5.1	4.6	5.2	3.6
8	2.3	2.7	4.9	10.2	14.7	14.7	16.3	9.4	5.2	4.5	5.1	3.5
9	2.4	3.0	4.8	10.5	14.7	14.9	16.1	8.8	6.9	4.4	5.4	3.4
10	3.1	3.8	4.9	10.1	14.4	15.8	16.1	8.5	8.5	4.4	5.6	3.2
11	3.8	5.3	5.2	9.3	13.7	16.4	16.1	8.4	8.7	6.1	5.3	2.7
12	4.5	6.0	6.9	8.8	12.7	16.9	15.4	9.4	8.3	5.8	5.1	2.4
13	5.0	6.0	9.5	8.5	12.3	17.2	14.9	9.7	7.9	4.9	4.9	2.1
14	4.8	5.8	9.9	8.8	11.6	17.3	14.4	9.2	7.4	4.6	4.7	2.3
15	4.4	5.6	10.3	8.3	11.3	17.5	13.5	8.5	8.5	4.3	4.6	Frozen.
16	4.4	5.4	11.1	7.9	14.1	18.4	12.8	8.2	9.9	4.2	4.5	-----
17	4.2	5.4	11.0	7.6	16.0	18.8	12.3	7.9	10.2	4.6	4.4	-----
18	3.9	5.8	10.1	7.4	16.4	18.2	12.0	7.6	10.8	5.1	4.3	-----
19	3.7	6.1	10.1	7.3	16.3	17.6	11.6	7.6	10.3	6.4	4.2	4.6
20	3.7	7.5	9.9	7.1	15.6	16.7	12.0	8.6	9.5	8.4	4.2	4.2
21	4.0	7.4	10.4	6.9	17.3	15.8	11.6	8.4	8.6	9.9	4.1	4.5
22	4.2	6.8	14.8	6.8	18.0	15.2	10.9	7.6	8.4	10.2	4.7	6.1
23	4.6	6.0	15.2	7.0	17.6	14.8	10.7	7.0	8.8	9.9	6.1	8.3
24	4.9	5.7	15.1	7.0	17.1	14.1	10.7	7.1	8.0	9.4	6.9	9.6
25	4.8	5.4	14.7	9.2	17.0	13.4	10.6	7.0	7.9	8.5	8.8	10.0
26	5.5	5.2	14.2	12.1	16.4	13.7	10.6	6.7	7.7	7.9	8.7	9.7
27	5.8	5.3	13.6	12.0	15.9	15.9	10.2	6.5	6.9	8.0	7.5	9.4
28	5.5	5.3	12.8	11.1	15.3	15.3	10.0	6.5	6.4	8.8	6.0	9.0
29	5.4	-----	12.5	10.5	14.5	16.5	9.9	6.5	6.0	9.2	5.2	8.6
30	5.2	-----	13.0	9.9	14.3	17.2	10.0	6.1	5.8	8.6	4.6	8.1
31	4.7	-----	13.6	-----	14.0	-----	9.8	5.8	-----	7.7	-----	7.5

1899.

1	6.7	1.9	10.9	7.9	18.4	16.0	13.9	12.9	8.6	5.2	4.9	4.9
2	5.7	1.7	10.8	7.9	18.0	16.7	14.5	12.9	8.4	5.2	4.9	4.9
3	4.9	1.6	9.9	8.1	16.4	16.2	15.2	12.6	8.1	5.1	4.9	4.9
4	4.2	1.8	9.3	9.0	15.0	16.3	15.6	12.4	7.9	5.1	4.9	4.9
5	4.3	2.5	9.1	9.7	14.2	16.4	15.9	12.4	7.7	5.1	4.9	4.9
6	5.2	Frozen.	8.3	9.6	13.8	15.9	16.3	12.1	7.5	5.0	4.8	4.9
7	5.4	-----	7.6	9.7	13.4	15.2	16.4	11.9	7.4	4.9	4.7	4.8
8	4.9	-----	7.5	9.8	13.3	15.4	16.6	11.8	7.3	4.9	4.7	4.8
9	4.6	-----	7.7	9.7	13.1	15.6	16.8	12.1	7.2	4.8	4.7	4.8
10	4.6	-----	7.6	9.8	13.5	15.8	17.6	12.2	7.1	4.8	4.6	4.7
11	4.5	-----	7.2	12.1	14.6	16.4	17.8	12.0	7.1	4.8	4.5	4.7
12	4.4	-----	7.0	13.5	15.2	18.0	17.6	12.0	7.0	4.8	4.5	4.6
13	4.3	-----	7.5	12.9	15.8	18.3	17.2	12.3	6.9	4.7	4.5	4.7
14	4.3	-----	9.0	11.9	15.8	17.8	16.9	12.4	6.7	4.7	4.4	4.8
15	4.4	-----	11.0	11.1	15.5	16.9	16.6	12.1	6.5	4.7	4.4	4.7
16	4.5	-----	11.5	10.4	14.7	16.8	16.5	11.8	6.4	4.6	4.4	4.8
17	4.5	-----	11.2	10.0	13.7	16.7	16.6	11.6	6.3	4.7	4.4	4.7
18	4.7	-----	10.8	9.8	13.1	16.9	16.7	11.3	6.5	4.7	4.5	4.6
19	5.0	-----	12.5	11.2	12.6	17.0	16.6	11.2	6.3	4.6	4.4	4.6
20	4.8	-----	12.9	11.9	12.2	16.9	16.1	11.0	6.2	4.5	4.4	4.4
21	4.6	-----	12.5	12.3	12.1	16.4	15.5	10.6	6.1	4.5	4.6	4.1
22	4.4	7.5	12.0	15.1	14.3	15.5	15.0	10.0	5.9	4.5	4.7	3.9
23	4.3	4.2	11.4	17.4	14.6	14.7	14.7	9.6	5.8	4.6	4.9	3.7
24	4.2	3.6	10.4	18.5	15.5	14.1	14.5	9.3	5.8	4.6	5.0	3.5
25	4.2	3.6	9.3	18.8	15.9	13.6	14.1	9.1	5.7	4.6	4.9	3.4
26	4.1	9.5	8.5	18.9	15.8	13.5	13.7	9.1	5.6	4.5	4.8	3.3
27	4.0	10.5	8.0	18.9	15.6	13.8	13.3	9.0	5.5	4.6	5.0	3.1
28	3.9	10.3	7.5	18.6	15.2	14.0	13.1	8.8	5.4	5.1	5.0	3.0
29	3.7	-----	7.2	18.6	14.9	14.1	12.8	8.7	5.4	5.1	5.0	2.8
30	3.4	-----	7.2	18.4	14.8	13.9	12.7	8.7	5.3	4.9	4.9	2.5
31	Frozen.	-----	8.0	-----	15.0	-----	12.5	8.8	-----	4.8	-----	2.3

NOTE.—See gage description for corrections to be applied.

DAILY RIVER STAGES.

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*Missouri River system—Osage River, Bagnell, Mo.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			2.6	3.9	11.7	27.9						
2			2.5	3.8	10.6	28.4						
3			2.4	3.2	8.8	28.0						
4			2.4	3.1	7.5	27.2						
5			2.4	3.0	5.7	26.2						
6			2.3	2.9	4.6	24.8						
7			2.3	2.7	5.8	22.8						
8			2.2	2.6	6.4	20.5						
9			2.1	2.5	6.1	20.0						
10			2.1	3.1	5.3	19.5						
11			2.1	3.6	4.2	13.2						
12			2.1	5.7	3.5	7.8						
13			2.0	6.8	3.0	5.5						
14			2.0	7.7	2.8	4.5						
15			2.0	7.4	2.6	3.8						
16			2.0	6.6	3.0	3.5						
17			2.0	5.4	8.0	3.2						
18			1.9	4.3	17.5	3.0						
19			1.9	3.6	20.7	2.7						
20			1.9	3.2	23.2	2.5						
21			1.9	3.0	24.5	2.4						
22			1.9	2.9	27.8	2.3						
23			2.7	3.1	31.8	2.4						
24			4.5	4.4	32.9	2.4						
25			6.2	8.0	32.6	2.1						
26			8.6	7.7	31.8	1.9						
27			7.1	9.3	31.1	2.2						
28			6.2	12.7	30.2	4.4						
29			5.1	13.0	29.3	5.5						
30			4.6	12.6	28.2	6.6						
31			4.0		27.3							

1897.

1			4.9	7.6	8.1	1.7						
2			4.6	6.9	9.0	1.5						
3			5.6	4.8	7.9	1.8						
4			7.5	5.6	6.3	1.7						
5			17.9	5.4	5.1	1.6						
6			26.4	5.1	4.4	1.5						
7			28.4	4.9	3.7	1.4						
8			27.6	4.6	3.4	1.4						
9			25.9	5.5	3.1	1.4						
10			25.6	6.1	3.3	1.3						
11			24.6	6.2	3.5	1.3						
12			22.2	6.5	3.8	1.4						
13			19.6	6.3	5.3	1.4						
14			15.8	6.0	5.4	1.6						
15			12.2	5.7	4.1	1.7						
16			8.7	5.4	3.8	1.8						
17			6.6	5.1	3.5	1.9						
18			5.7	4.9	3.2	1.8						
19			5.6	4.6	3.0	1.7						
20			7.3	4.4	2.7	2.9						
21			9.2	4.1	2.6	3.0						
22			9.3	3.9	2.5	3.2						
23			8.5	3.7	2.5	3.3						
24			7.3	3.4	2.4	3.0						
25			6.3	3.1	2.7	3.9						
26			5.6	3.0	2.8	3.4						
27			5.1	3.2	2.5	6.5						
28			4.8	3.5	2.3	11.0						
29			4.3	4.8	2.1	11.9						
30			4.0	7.1	1.9	10.8						
31			3.9		1.8							

DAILY RIVER STAGES.

Missouri River system—Osage River, Bagnell, Mo.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			1.9	8.2	4.9	8.5						
2			1.9	7.2	7.5	7.6						
3			1.8	5.8	12.7	6.8						
4			1.8	5.0	15.6	6.7						
5			1.8	6.2	17.6	6.5						
6			1.7	8.7	18.8	6.5						
7			1.7	11.1	20.1	5.9						
8			1.6	11.3	19.6	5.6						
9			1.6	10.2	18.6	4.6						
10			1.5	9.5	16.5	3.9						
11			1.7	9.3	13.6	4.2						
12			2.0	8.7	11.7	3.8						
13			3.9	7.0	10.9	3.7						
14			8.2	5.8	10.2	3.7						
15			11.7	5.2	10.0	4.5						
16			12.3	4.7	10.3	7.6						
17			11.2	4.4	14.3	10.2						
18			9.6	4.1	13.7	9.0						
19			10.3	4.0	13.0	8.2						
20			10.3	3.9	12.5	8.6						
21			10.6	3.7	13.6	8.1						
22			16.8	3.7	15.8	7.0						
23			20.9	4.0	16.8	5.8						
24			22.0	4.9	17.7	4.7						
25			20.1	6.0	16.1	4.6						
26			16.1	5.9	14.6	4.7						
27			12.1	5.7	13.5	5.1						
28			10.4	5.9	12.2	14.5						
29			9.9	5.6	11.6	17.4						
30			9.5	5.3	11.1	16.4						
31			8.9		10.8							

1899.

1			14.0	6.6	6.8	5.0						
2			12.1	6.5	5.5	4.7						
3			10.7	5.9	4.7	4.8						
4			9.6	5.4	4.6	5.6						
5			7.9	5.8	4.7	6.1						
6			6.0	6.8	4.4	5.8						
7			5.1	7.6	4.2	5.9						
8			4.7	7.0	4.4	5.6						
9			4.3	6.2	4.7	6.1						
10			4.1	5.5	6.3	7.0						
11			4.7	5.2	11.2	11.8						
12			5.0	5.0	18.0	11.5						
13			5.7	4.7	17.2	9.4						
14			5.9	4.4	14.7	9.2						
15			6.0	4.1	11.9	8.9						
16			6.2	3.8	8.3	8.7						
17			7.9	3.6	7.2	9.8						
18			8.7	3.3	5.3	8.9						
19			11.5	3.2	4.7	7.3						
20			12.1	3.1	4.2	6.5						
21			11.8	3.2	4.0	4.4						
22			9.4	7.9	4.2	3.4						
23			8.0	14.2	4.1	2.8						
24			6.4	17.8	3.9	2.5						
25			5.2	18.6	4.2	2.4						
26			4.4	16.4	5.8	2.4						
27			4.1	13.1	5.8	2.3						
28			3.9	11.0	5.5	2.3						
29			3.8	9.4	5.2	2.4						
30			4.3	8.1	4.9	2.7						
31			5.5		5.2							

DAILY RIVER STAGES.

225

*Missouri River system—Gasconade River, Arlington, Mo.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			-0.7	1.1	4.0	4.6						
2			-0.7	0.7	4.6	5.0						
3			-0.8	0.5	2.6	3.0						
4			-0.8	0.3	1.7	3.0						
5			-0.8	0.1	1.2	2.6						
6			-0.8	0.0	0.8	2.0						
7			-0.8	-0.1	0.5	1.6						
8			-0.8	-0.3	0.4	3.6						
9			-0.9	-0.3	0.1	8.6						
10			-0.8	-0.4	0.0	5.0						
11			-0.7	-0.4	-0.2	3.5						
12			-0.7	-0.5	-0.3	2.5						
13			-0.7	-0.3	-0.4	2.0						
14			-0.7	-0.3	-0.5	1.8						
15			-0.7	0.3	-0.6	1.3						
16			-0.7	0.1	1.3	-0.1						
17			-0.7	0.1	13.1	-0.1						
18			-0.7	0.0	10.1	-0.1						
19			-0.7	0.0	4.1	-0.1						
20			-0.6	-0.1	9.6	-0.1						
21			-0.3	-0.1	6.2	-0.2						
22			0.2	-0.1	17.9	-0.3						
23			6.2	0.1	14.2	-0.3						
24			6.9	1.0	13.2	-0.3						
25			6.5	1.0	16.2	2.0						
26			5.5	1.3	6.0	2.0						
27			3.8	3.9	7.6	1.0						
28			2.9	4.6	8.2	0.7						
29			2.2	4.6	7.2	4.7						
30			1.8	4.2	6.2	2.7						
31			1.4		5.0							

1897.

1			0.5	15.2	3.7	-0.4						
2			1.4	18.5	3.4	-0.4						
3			4.6	12.0	2.4	-0.5						
4			6.5	8.0	2.0	-0.5						
5			13.7	6.5	1.0	-0.5						
6	26.5		15.0	6.5	0.6	-0.5						
7			11.4	4.3	0.5	-0.6						
8			8.3	4.5	0.5	-0.6						
9			8.5	5.5	0.4	-0.6						
10			7.0	8.3	0.5	-0.6						
11			4.5	8.1	1.0	-0.7						
12			4.5	5.5	0.4	-0.7						
13			3.5	4.6	0.4	-0.7						
14			3.0	3.5	0.4	-0.7						
15			2.0	2.5	0.4	-0.8						
16			2.0	2.3	0.2	-0.8						
17			2.8	2.0	0.1	-0.8						
18			3.0	1.5	0.0	-0.8						
19			7.4	1.0	-0.2	-0.8						
20			11.0	0.6	-0.2	-0.7						
21			9.5	0.1	-0.2	-0.7						
22			5.8	0.5	-0.4	-0.7						
23			4.5	0.7	-0.4	-0.6						
24			3.3	0.2	-0.4	-0.4						
25			2.8	0.5	-0.4	-0.0						
26			2.4	0.9	-0.4	-0.3						
27			2.0	0.6	-0.2	-0.5						
28			1.7	0.4	0.5	0.5						
29			1.5	1.6	0.0	2.5						
30			1.4	2.0	-0.2	1.4						
31			1.8		-0.4							

DAILY RIVER STAGES.

*Missouri River system—Gasconade River, Arlington, Mo.—Continued.***1898.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			-0.6	4.8	3.0	0.3						
2			-0.6	3.8	3.4	0.3						
3			0.0	2.8	3.4	0.1						
4			0.0	3.8	4.7	0.0						
5			-0.2	6.8	7.0	0.0						
6			-0.3	6.0	8.5	0.1						
7			-0.5	4.8	9.0	0.1						
8			-0.5	3.8	7.5	0.2						
9			-0.5	2.9	5.5	0.3						
10			-0.5	2.5	5.0	0.3						
11			-0.2	2.3	2.5	0.3						
12			1.3	2.0	2.0	0.3						
13			4.4	1.3	2.0	0.3						
14			9.5	1.0	1.7	0.3						
15			8.0	0.8	1.5	0.3						
16			4.5	0.7	1.4	0.1						
17			4.0	0.7	1.3	0.1						
18			3.7	0.7	1.0	0.0						
19			3.8	0.7	1.0	0.2						
20			3.3	1.0	1.8	0.3						
21			3.8	1.0	5.0	0.4						
22			9.0	2.0	9.5	0.5						
23			15.0	2.4	13.7	0.6						
24			14.3	2.4	7.8	0.7						
25			13.3	2.8	3.4	0.7						
26			9.5	2.8	2.4	0.7						
27			9.0	3.0	1.8	0.2						
28			12.9	3.2	1.4	0.4						
29			17.0	3.0	1.0	0.6						
30			12.5	3.0	0.8	0.9						
31			6.0		0.5							

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			3.0	0.8	1.4	-0.2						
2			2.5	0.8	1.2	-0.3						
3			2.2	1.0	0.9	-0.4						
4			1.5	1.5	0.9	-0.4						
5			1.2	1.7	0.8	-0.5						
6			1.0	1.9	0.8	-0.6						
7			0.8	1.5	0.6	-0.6						
8			0.5	1.4	2.6	-0.7						
9			0.2	1.2	5.5	-0.7						
10			0.1	1.0	6.5	-0.7						
11			0.1	0.9	5.5	-0.8						
12			0.0	0.8	8.3	-0.8						
13			0.0	0.8	7.9	-0.8						
14			-0.1	0.6	5.6	-0.6						
15			-0.2	0.5	4.0	-0.6						
16			-0.3	0.5	3.5	-0.7						
17			-0.3	0.5	2.0	-0.8						
18			0.0	0.4	1.8	-0.8						
19			0.1	0.4	1.6	-0.9						
20			1.0	0.4	1.0	-0.9						
21			2.0	2.0	1.0	-0.9						
22			1.0	2.0	0.7	-0.9						
23			0.8	3.7	0.8	-1.0						
24			0.8	6.0	0.7	-1.0						
25			0.7	9.1	0.7	-1.0						
26			0.8	9.0	0.6	-1.0						
27			0.8	6.2	0.6	-1.0						
28			0.9	4.2	0.0	-1.0						
29			0.6	3.5	1.4	-1.0						
30			0.6	2.3	0.0	-1.0						
31			0.8		-0.1							

DAILY RIVER STAGES.

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Mobile River system—Alabama River, Montgomery, Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.1	6.2	4.7	5.2	3.7	2.4	0.5	0.9	-0.1	-0.7	-0.2	2.1
2	4.5	5.7	4.9	5.9	4.8	1.8	0.4	1.2	-0.1	-0.4	-0.4	2.8
3	5.0	5.0	4.9	7.7	5.8	3.0	0.3	1.6	-0.3	1.3	-0.5	3.4
4	5.0	4.8	4.6	8.8	6.5	3.6	0.2	1.0	-0.4	1.7	0.0	5.3
5	4.5	4.7	4.2	10.6	7.0	2.8	0.5	0.9	-0.5	2.3	0.9	6.4
6	3.2	9.5	4.0	10.2	5.4	2.4	0.6	0.9	-0.7	1.8	2.8	5.6
7	2.7	17.9	5.0	9.2	5.4	2.4	0.8	1.0	-0.9	1.0	3.1	4.3
8	2.5	21.6	8.2	8.0	4.8	2.2	1.0	0.9	-1.0	0.4	2.4	3.1
9	3.3	26.8	11.5	6.8	4.5	2.5	4.8	0.8	-1.0	0.0	1.5	2.5
10	3.7	28.5	9.3	5.6	3.0	3.8	5.7	0.7	-1.1	-0.3	1.8	2.3
11	2.9	28.4	8.5	5.0	2.8	3.6	7.5	0.5	-1.2	-0.5	2.0	2.5
12	2.7	26.4	12.0	4.6	2.5	3.8	9.3	0.4	-1.2	-0.7	1.4	2.0
13	2.5	24.0	12.0	4.3	2.0	3.0	8.8	0.2	-1.2	-0.8	4.7	1.8
14	2.5	20.3	11.0	4.1	1.8	2.3	6.6	0.0	-1.3	-0.8	7.5	1.5
15	2.5	18.0	10.0	4.2	2.5	1.4	4.5	-0.1	-1.3	-0.9	5.8	1.5
16	2.2	15.5	9.1	3.9	2.9	1.3	3.2	-0.2	-1.4	-1.0	3.5	2.1
17	3.6	13.0	8.4	3.8	2.4	1.2	6.4	-0.2	-1.4	-1.0	4.6	2.4
18	6.4	11.8	7.7	3.5	1.7	1.0	7.5	-0.2	-1.4	-1.0	5.0	2.2
19	6.0	10.0	8.7	3.2	1.5	0.9	6.5	-0.1	-1.4	-1.1	4.3	1.9
20	5.6	8.8	9.7	3.0	1.2	1.6	5.2	-0.2	-1.4	-1.1	3.3	1.9
21	5.1	8.5	12.6	3.0	1.0	2.0	3.5	-0.3	-1.5	-1.2	2.2	1.8
22	7.2	6.6	13.0	2.8	1.0	3.5	4.2	-0.3	-1.2	-1.2	1.6	1.6
23	17.6	6.0	10.6	2.7	0.9	3.2	3.6	-0.4	1.2	-1.2	1.0	1.3
24	21.7	5.5	9.8	2.6	1.3	2.8	3.6	-0.5	3.5	-0.8	0.7	1.2
25	20.4	5.2	10.0	2.5	1.8	1.8	2.9	0.2	3.2	-0.5	0.6	1.1
26	18.7	5.0	9.3	2.5	1.5	1.5	2.4	0.5	0.3	-0.4	0.5	0.9
27	16.6	4.8	8.1	2.4	1.3	1.3	2.0	0.6	-0.2	-0.4	0.4	0.8
28	15.0	4.6	7.2	3.1	1.0	1.1	1.8	0.4	-0.7	-0.6	0.4	0.7
29	12.0	4.6	6.5	3.5	2.4	0.9	1.8	0.0	-0.7	-0.7	0.6	0.6
30	9.5	-----	6.0	3.5	4.0	0.6	1.4	-0.1	-0.7	-0.8	1.3	0.6
31	7.7	-----	5.5	-----	3.0	-----	1.2	-0.2	-----	-0.5	-----	0.5

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1	0.5	3.5	12.5	8.2	6.7	1.8	0.6	2.2	0.7	-1.4	-1.0	-0.6
2	0.4	4.0	9.0	10.0	8.3	1.7	0.5	1.6	0.7	-1.4	-0.9	-0.7
3	0.4	5.8	6.8	12.8	8.1	1.6	0.6	1.2	0.6	-1.4	-0.9	-0.6
4	0.5	6.5	5.5	12.3	6.1	1.6	0.9	0.8	0.3	-1.4	-1.0	-0.5
5	0.6	9.5	6.0	12.8	6.0	1.6	1.0	0.6	0.0	-1.4	-1.0	0.0
6	0.7	11.0	12.5	14.0	5.4	1.7	1.8	0.5	0.1	-1.5	-0.9	0.4
7	0.7	12.6	25.9	15.5	4.0	1.8	2.0	0.5	0.3	-1.5	-0.9	0.7
8	0.6	14.0	31.4	16.4	4.0	2.0	1.4	1.0	0.0	-1.5	-1.0	1.5
9	0.6	14.0	33.8	17.6	4.0	2.0	1.3	1.2	-0.2	-1.5	-0.5	2.3
10	0.6	11.5	33.0	20.8	3.8	1.7	2.0	0.8	-0.3	-1.5	-0.4	2.2
11	0.7	9.9	30.3	22.3	3.6	1.5	2.0	0.7	-0.5	-1.5	-0.4	2.1
12	0.7	15.5	27.7	21.0	3.4	1.3	2.2	1.3	-0.6	-1.5	-0.5	1.8
13	0.6	19.0	27.8	18.0	3.4	1.2	2.6	1.9	-0.7	-1.5	-0.6	1.5
14	0.5	22.1	32.4	14.0	3.7	1.2	2.9	1.7	-0.5	-1.5	-0.7	2.4
15	0.5	22.7	36.1	11.2	4.1	1.3	2.2	1.8	-0.5	-1.5	-0.8	3.9
16	0.5	19.4	38.0	11.1	4.5	1.3	1.7	1.5	-0.4	-1.5	-0.8	3.3
17	1.4	16.0	37.7	10.8	4.9	1.5	1.4	1.3	-0.7	-1.1	-0.9	2.7
18	3.8	13.2	36.0	9.8	4.7	1.7	1.0	1.1	-0.8	-0.6	-0.9	2.6
19	5.7	9.8	33.7	9.0	4.7	1.5	0.8	2.0	-0.8	-0.2	-0.9	2.9
20	6.3	8.0	31.5	8.5	4.3	1.2	1.3	2.5	-0.8	-0.5	-1.0	2.7
21	10.2	7.1	30.8	7.6	3.6	1.2	5.1	5.8	-0.9	-0.7	-1.0	2.1
22	13.0	6.4	29.8	6.8	3.2	1.6	6.8	6.0	-1.0	-0.9	-1.0	1.7
23	12.7	6.4	30.2	6.4	2.9	1.3	7.3	6.3	-1.1	-1.0	-1.0	1.9
24	11.5	9.0	34.0	6.0	2.7	1.0	8.4	4.2	-1.1	-1.1	-1.0	3.1
25	10.0	12.2	37.5	5.3	2.5	0.9	8.1	2.7	-1.2	-1.1	-1.0	5.3
26	8.0	14.7	36.6	5.4	2.4	1.0	5.5	2.4	-1.2	-1.1	-1.0	5.0
27	6.0	16.0	32.8	5.2	2.2	1.2	4.4	1.9	-1.2	-0.9	-0.9	4.8
28	4.7	14.8	25.7	5.1	2.1	1.0	3.2	1.5	-1.3	-0.7	-0.9	4.7
29	4.3	-----	19.3	4.8	2.0	0.7	2.4	1.3	-1.3	-0.8	-0.7	3.8
30	4.0	-----	12.5	5.2	1.9	0.5	2.0	1.0	-1.3	-1.0	-0.5	3.1
31	4.0	-----	10.0	-----	1.8	-----	2.2	0.7	-----	-1.1	-----	2.8

DAILY RIVER STAGES.

Mobile River system—Alabama River, Montgomery, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.5	10.5	1.3	6.9	5.4	0.2	1.4	4.6	5.4	1.3	3.2	7.4
2	2.1	7.7	1.2	8.3	4.9	0.0	0.9	5.0	4.4	1.1	3.0	6.9
3	1.7	5.5	1.2	9.6	4.3	-0.1	-0.1	4.7	3.5	1.0	3.0	7.4
4	1.4	4.3	1.4	9.1	3.9	-0.1	-0.3	4.9	2.5	1.2	2.8	8.4
5	1.3	3.7	1.8	10.8	3.3	-0.2	-0.3	8.9	2.2	12.6	2.7	10.0
6	1.2	3.3	2.1	18.0	2.9	-0.2	-0.3	9.3	9.5	18.3	2.7	10.8
7	1.1	2.9	2.0	20.2	2.7	-0.2	-0.3	8.3	13.2	23.5	2.8	8.2
8	1.0	2.7	1.7	20.2	2.4	-0.3	-0.3	10.0	15.3	24.5	3.4	7.6
9	1.0	2.5	1.6	18.8	2.2	-0.3	1.4	10.0	16.2	27.0	3.6	7.4
10	0.9	2.3	1.5	16.7	2.0	-0.5	2.6	9.2	16.6	28.0	3.3	7.4
11	0.9	2.2	1.3	14.5	1.7	-0.6	2.1	9.8	15.7	28.0	4.7	7.5
12	1.1	2.1	1.2	11.5	1.6	-0.7	1.5	19.5	13.8	23.5	6.6	7.6
13	2.0	2.1	1.1	8.1	1.5	-0.8	1.5	17.9	10.0	19.7	5.4	7.1
14	2.1	2.0	1.0	6.3	1.4	-0.5	1.6	14.0	6.6	18.2	5.5	6.3
15	2.2	1.8	1.3	5.3	1.3	0.7	2.0	11.8	5.3	10.0	7.0	5.6
16	2.4	1.6	1.5	4.8	1.3	0.0	4.2	10.0	4.2	6.2	7.9	4.8
17	3.3	1.5	1.7	4.4	1.2	-0.1	4.2	6.3	3.3	4.8	7.5	3.2
18	3.6	1.5	1.7	4.0	1.1	0.1	3.3	4.7	2.5	4.8	7.5	2.7
19	3.6	1.6	1.8	3.7	1.0	0.3	2.6	3.7	2.3	5.7	10.0	2.7
20	3.6	1.7	3.9	3.7	0.9	0.7	3.7	4.0	2.0	6.7	14.2	7.0
21	4.2	1.9	5.0	4.3	0.8	0.4	2.5	2.8	1.7	7.4	13.6	9.5
22	4.5	1.9	4.4	5.2	0.7	0.3	1.5	3.3	1.5	8.6	10.1	10.0
23	5.7	1.5	3.4	6.5	0.6	1.0	0.9	2.4	1.5	8.3	10.0	9.9
24	6.7	1.4	2.7	9.9	0.5	1.5	0.6	2.8	1.5	7.3	14.0	9.7
25	7.1	1.3	2.3	12.8	0.4	1.4	0.6	2.4	2.3	6.1	13.0	8.6
26	7.1	1.2	1.9	12.6	0.3	1.3	1.3	2.4	4.3	5.3	11.8	7.5
27	10.1	1.2	1.7	11.5	0.2	1.2	1.9	5.8	3.9	4.4	9.2	7.3
28	12.4	1.4	1.5	10.5	0.1	0.8	2.1	6.6	3.0	4.0	8.0	6.8
29	13.8	1.4	9.6	0.1	0.6	3.2	6.0	2.1	3.9	7.1	5.5
30	13.8	2.0	7.0	0.4	1.0	3.5	5.0	1.9	3.7	7.0	5.0
31	12.9	4.6	0.3	4.2	4.9	3.4	4.7

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1	5.0	13.0	35.1	20.3	9.8	3.2	2.3	9.4	3.1	-0.3	0.4	3.3
2	5.2	14.9	35.2	21.5	8.4	3.5	2.5	7.2	2.6	-0.4	0.2	2.8
3	5.1	19.0	33.5	21.4	7.3	3.7	2.3	6.8	2.2	-0.4	0.1	2.5
4	5.0	23.0	30.3	19.0	6.7	3.8	2.0	5.6	2.1	-0.3	0.0	2.3
5	4.8	23.5	27.0	17.2	6.3	3.6	1.7	4.8	2.5	0.2	0.0	2.0
6	4.8	22.1	25.6	16.8	6.0	3.2	1.5	3.8	1.9	0.1	0.0	1.7
7	5.3	24.8	18.7	16.4	5.8	3.0	1.2	3.4	1.7	0.2	-0.1	1.5
8	7.4	28.9	16.1	20.3	5.6	2.8	1.2	3.2	1.3	0.3	-0.1	1.4
9	8.5	31.6	14.3	22.3	5.8	2.6	1.3	2.9	0.5	0.3	-0.1	1.3
10	8.9	32.0	13.2	24.2	6.3	2.5	1.5	2.5	0.9	0.2	-0.1	1.0
11	11.0	31.6	12.1	24.0	6.3	2.4	1.7	2.2	0.9	0.2	-0.1	7.5
12	17.5	29.7	10.9	22.1	5.7	2.3	1.7	2.0	0.8	0.4	-0.1	14.6
13	18.0	26.8	9.8	19.4	5.1	2.4	1.5	1.7	0.6	0.6	-0.1	15.6
14	16.3	24.7	13.2	17.1	5.1	2.6	1.3	1.5	0.5	0.4	-0.1	15.5
15	13.9	20.6	16.0	14.1	5.0	2.8	1.1	1.4	1.3	0.5	-0.1	14.6
16	12.7	19.2	18.3	12.0	4.8	3.3	1.0	1.3	1.8	0.4	-0.1	11.4
17	12.4	17.6	24.9	10.4	4.4	3.4	0.9	2.3	1.0	0.2	0.0	7.5
18	13.0	16.5	29.0	9.8	4.3	3.5	0.9	3.5	0.8	0.1	0.1	5.9
19	13.1	15.9	30.8	9.3	4.0	3.1	0.9	2.8	0.5	0.1	0.1	4.6
20	10.0	15.9	31.7	9.0	3.9	2.2	1.4	1.8	0.4	0.2	0.1	4.0
21	8.4	16.0	32.0	8.5	3.8	1.7	1.8	1.8	0.0	0.4	0.1	3.7
22	7.8	15.4	32.0	8.1	3.8	1.5	4.8	1.5	0.0	0.5	0.0	3.6
23	7.8	14.7	31.4	8.2	3.8	1.2	9.0	1.5	-0.1	0.8	0.4	3.5
24	8.9	13.5	30.0	9.4	4.9	1.2	13.7	1.8	-0.1	0.4	0.5	9.6
25	8.9	13.5	30.0	11.0	5.2	1.2	16.0	2.0	-0.1	0.4	0.6	10.5
26	9.0	13.5	28.3	14.8	5.2	1.6	11.7	1.5	-0.1	0.3	1.0	11.2
27	9.1	24.0	27.4	16.7	4.3	1.8	8.3	1.7	-0.2	0.2	3.0	12.0
28	9.0	¹ 33.0	26.1	16.7	3.8	2.1	9.5	2.7	-0.2	0.1	4.0	10.6
29	8.7	.....	24.9	15.8	3.5	2.3	10.4	2.8	-0.3	0.1	3.8	8.6
30	8.7	23.1	12.2	3.1	2.1	10.4	1.9	-0.3	0.4	3.3	6.9
31	9.0	19.3	3.0	9.2	1.9	0.4	5.5

¹34.0 at 3 p. m.

DAILY RIVER STAGES.

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Mobile River system—Alabama River, Selma, Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.4	10.0	6.1	7.5	5.2	4.8	0.6	0.1	-0.8	-1.7	-1.3	1.8
2	5.1	8.4	6.0	7.5	6.4	3.9	0.3	0.9	-0.8	-1.6	-1.2	1.8
3	5.2	7.0	6.3	9.1	7.3	2.7	0.2	0.6	-0.9	-1.8	-1.1	2.7
4	5.1	7.0	6.3	10.6	10.2	1.9	-0.1	0.4	-0.9	0.6	-1.3	3.3
5	4.8	6.4	6.0	11.9	10.0	2.3	-0.2	0.3	-1.1	1.3	-1.1	7.8
6	3.9	10.0	5.6	12.5	9.9	2.8	-0.3	0.3	-1.2	1.7	-1.0	8.3
7	3.4	17.3	8.2	12.4	8.8	2.4	-0.3	0.4	-1.3	1.9	1.9	7.6
8	3.3	23.4	10.6	11.7	7.8	2.3	2.2	0.6	-1.4	0.6	3.7	5.2
9	3.3	29.8	14.7	10.2	6.8	2.8	5.3	0.9	-1.6	0.3	3.3	4.6
10	3.2	31.7	15.6	9.0	5.6	3.2	6.3	0.4	-1.7	0.1	3.3	3.6
11	3.3	32.8	15.6	7.4	4.8	3.8	8.2	0.0	-1.8	-0.2	2.9	2.8
12	3.0	32.6	14.7	6.4	4.7	4.2	9.3	-0.2	-1.9	-0.5	2.9	2.3
13	3.0	31.0	16.3	5.8	3.0	4.2	10.9	-0.3	-1.9	-0.6	5.0	2.0
14	3.0	28.7	16.9	5.4	2.8	3.4	10.8	-0.4	-1.9	-0.9	6.6	1.8
15	2.9	26.7	15.3	5.2	2.8	2.6	8.8	-0.4	-1.9	-0.9	8.5	1.8
16	2.9	14.8	14.0	5.0	3.1	1.7	7.4	-0.5	-1.9	-1.2	6.6	1.6
17	3.0	10.6	13.2	5.0	3.2	1.4	6.0	-0.7	-1.9	-1.3	7.0	2.0
18	3.9	10.6	10.7	4.6	3.0	1.2	8.9	-0.8	-1.9	-1.5	6.7	2.8
19	7.6	10.4	10.9	4.2	2.2	1.2	10.5	-0.9	-1.9	-1.9	6.4	3.0
20	7.3	10.3	12.5	4.0	1.7	2.7	10.0	-0.9	-1.9	-1.9	6.3	2.3
21	7.3	10.0	14.9	3.9	1.2	4.3	8.5	-1.0	-1.9	-1.9	2.6	1.9
22	9.8	9.9	15.9	3.5	1.0	4.7	7.1	-1.1	-1.9	-1.9	1.6	1.7
23	17.0	8.5	15.4	3.2	0.9	6.3	7.0	-1.2	-1.9	-1.9	1.0	1.6
24	23.0	7.9	14.0	3.1	0.9	6.7	6.3	-1.2	-0.9	-1.9	0.8	1.2
25	24.8	7.5	13.4	3.0	1.0	6.0	4.9	-1.0	3.4	-1.6	0.5	1.0
26	24.2	6.8	13.4	3.0	1.5	4.6	2.3	-0.8	2.0	-1.4	0.3	0.8
27	22.3	6.5	13.2	2.8	1.7	2.0	1.9	-0.9	0.0	-1.3	0.0	0.6
28	19.8	6.3	10.9	2.7	1.4	1.6	1.0	0.0	-0.9	-1.3	-0.1	0.6
29	17.5	6.2	9.6	3.4	1.5	1.0	0.8	-0.3	-1.5	-1.3	-0.3	0.3
30	14.0		8.7	3.6	2.0	0.8	0.4	-0.6	-1.7	-1.3	-0.1	0.3
31	12.5		7.8		4.8		0.2	-0.7		-1.3		0.3

1897.

1	0.2	2.6	17.8	13.8	8.0	2.3	0.8	2.2	0.6	-2.0	-1.3	-1.6
2	0.2	2.6	15.4	12.2	9.5	1.9	0.8	2.6	0.5	-2.0	-1.6	-1.4
3	0.4	3.2	12.5	14.7	11.0	1.7	0.5	2.3	0.5	-2.0	-1.6	-1.0
4	0.4	6.2	11.0	15.8	9.5	1.5	0.6	1.2	0.4	-2.0	-1.3	-1.0
5	0.4	7.9	9.5	15.8	8.3	1.5	0.7	0.7	0.3	-2.0	-1.5	-0.6
6	0.5	10.8	15.6	16.0	7.4	1.5	1.6	0.3	-0.4	-2.0	-1.3	-0.4
7	0.4	13.0	29.5	16.9	7.4	1.6	2.0	0.2	-0.6	-2.0	-1.6	-0.2
8	0.4	14.9	35.0	18.2	6.6	1.9	2.2	0.0	-0.3	-2.0	-1.6	0.3
9	0.4	16.1	36.9	19.5	6.4	2.2	1.8	0.5	-0.3	-2.0	-1.6	1.0
10	0.3	16.2	37.7	21.6	6.2	2.0	1.8	1.1	-0.5	-2.0	-1.6	2.1
11	0.3	14.8	37.0	24.0	5.8	2.0	1.9	1.2	-0.7	-2.0	-1.3	2.7
12	0.3	17.0	35.1	25.0	5.4	2.0	2.4	0.8	-0.9	-2.0	-0.9	2.6
13	0.3	21.5	34.5	24.0	5.4	1.6	2.6	0.8	-0.9	-2.0	-0.7	2.7
14	0.3	25.5	35.5	21.3	5.0	1.6	3.2	1.8	-1.1	-2.0	-0.8	3.0
15	0.2	27.5	37.5	17.5	5.5	1.5	3.9	1.9	-1.1	-2.0	-1.0	3.3
16	0.2	26.6	39.5	15.0	6.0	1.6	3.3	1.9	-1.1	-2.0	-1.3	4.5
17	0.2	24.2	40.7	14.5	6.5	1.7	2.0	1.7	-1.1	-2.0	-1.6	4.2
18	1.0	21.0	40.6	13.6	6.8	1.7	1.6	1.6	-1.1	-2.0	-1.8	3.8
19	4.0	17.4	39.5	12.5	6.9	1.7	1.4	1.5	-1.1	-2.0	-1.8	3.4
20	6.8	14.2	38.3	11.5	6.4	1.5	2.0	2.0	-1.1	-1.0	-1.8	3.0
21	8.2	11.0	36.5	10.5	6.0	1.5	1.4	3.2	-1.2	-0.8	-1.8	3.0
22	12.8	9.2	35.3	9.5	5.8	1.4	4.9	6.8	-1.2	-1.0	-1.8	3.0
23	14.8	8.0	35.8	8.3	5.2	1.3	7.8	7.6	-1.5	-1.3	-1.8	2.7
24	14.2	7.7	37.1	8.0	5.0	1.2	8.8	8.2	-1.6	-1.3	-1.8	2.2
25	13.6	8.0	40.3	7.7	4.6	1.1	9.8	5.7	-1.8	-1.3	-1.8	2.0
26	12.2	14.6	41.5	7.7	4.6	1.0	9.6	3.9	-1.8	-1.7	-1.8	3.0
27	10.0	17.6	40.8	7.5	4.0	0.9	8.4	3.0	-1.9	-1.9	-1.6	4.5
28	9.0	18.7	38.0	7.0	3.9	0.9	6.5	2.0	-2.0	-1.9	-1.6	6.0
29	6.0		33.3	7.0	3.3	0.9	4.2	1.6	-2.0	-1.6	-1.6	5.4
30	3.5		26.4	7.0	3.0	0.8	3.0	1.4	-2.0	-1.6	-1.6	4.8
31	2.5		19.5		2.6		2.3	0.8		-1.3		3.8

*Mobile River system—Alabama River, Montgomery, Ala.—Continued.***1898.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.5	10.5	1.3	6.9	5.4	0.2	1.4	4.6	5.4	1.3	3.2	7.4
2	2.1	7.7	1.2	8.3	4.9	0.0	0.9	5.0	4.4	1.1	3.0	6.9
3	1.7	5.5	1.2	9.6	4.3	-0.1	-0.1	4.7	3.5	1.0	3.0	7.4
4	1.4	4.3	1.4	9.1	3.9	-0.1	-0.3	4.9	2.5	1.2	2.8	8.4
5	1.3	3.7	1.8	10.8	3.3	-0.2	-0.3	8.9	2.2	12.6	2.7	10.0
6	1.2	3.3	2.1	18.0	2.9	-0.2	-0.3	9.3	9.5	18.3	2.7	10.8
7	1.1	2.9	2.0	20.2	2.7	-0.2	-0.3	8.3	13.2	23.5	2.8	8.2
8	1.0	2.7	1.7	20.2	2.4	-0.3	-0.3	10.0	15.3	24.5	3.4	7.6
9	1.0	2.5	1.6	18.8	2.2	-0.3	1.4	10.0	16.2	27.0	3.6	7.4
10	0.9	2.3	1.5	16.7	2.0	-0.5	2.6	9.2	16.6	28.0	3.3	7.4
11	0.9	2.2	1.3	14.5	1.7	-0.6	2.1	9.8	15.7	28.0	4.7	7.5
12	1.1	2.1	1.2	11.5	1.6	-0.7	1.5	19.5	13.8	23.5	6.6	7.6
13	2.0	2.1	1.1	8.1	1.5	-0.8	1.5	17.9	10.0	19.7	5.4	7.1
14	2.1	2.0	1.0	6.3	1.4	-0.5	1.6	14.0	6.6	16.2	5.5	6.3
15	2.2	1.8	1.3	5.3	1.3	0.7	2.0	11.8	5.3	10.0	7.0	5.6
16	2.4	1.6	1.5	4.8	1.3	0.0	4.2	10.0	4.2	6.2	7.9	4.8
17	3.3	1.5	1.7	4.4	1.2	-0.1	4.2	6.3	3.3	4.8	7.5	3.2
18	3.6	1.5	1.7	4.0	1.1	0.1	3.3	4.7	2.5	4.8	7.5	2.7
19	3.6	1.6	1.8	3.7	1.0	0.3	2.6	3.7	2.3	5.7	10.0	2.7
20	3.6	1.7	3.9	3.7	0.9	0.7	3.7	4.0	2.0	6.7	14.2	7.0
21	4.2	1.9	5.0	4.3	0.8	0.4	2.5	2.8	1.7	7.4	13.6	9.5
22	4.5	1.9	4.4	5.2	0.7	0.3	1.5	3.3	1.5	8.6	10.1	10.0
23	5.7	1.5	3.4	6.5	0.6	1.0	0.9	2.4	1.5	8.3	10.0	9.9
24	6.7	1.4	2.7	9.9	0.5	1.5	0.6	2.8	1.5	7.3	14.0	9.7
25	7.1	1.3	2.3	12.8	0.4	1.4	0.6	2.4	2.3	6.1	13.0	8.6
26	7.1	1.2	1.9	12.6	0.3	1.3	1.3	2.4	4.3	5.3	11.8	7.5
27	10.1	1.2	1.7	11.5	0.2	1.2	1.9	5.8	3.9	4.4	9.2	7.3
28	12.4	1.4	1.5	10.5	0.1	0.8	2.1	6.6	3.0	4.0	8.0	6.8
29	13.8	.....	1.4	9.6	0.1	0.6	3.2	6.0	2.1	3.9	7.1	5.5
30	13.8	.....	2.0	7.0	0.4	1.0	3.5	5.0	1.9	3.7	7.0	5.0
31	12.9	.....	4.6	.....	0.3	.....	4.2	4.9	.....	3.4	.....	4.7

1899.

1	5.0	13.0	35.1	20.3	9.8	3.2	2.3	9.4	3.1	-0.3	0.4	3.3
2	5.2	14.9	35.2	21.5	8.4	3.5	2.5	7.2	2.6	-0.4	0.2	2.8
3	5.1	19.0	33.5	21.4	7.3	3.7	2.3	6.8	2.2	-0.4	0.1	2.5
4	5.0	23.0	30.3	19.0	6.7	3.8	2.0	5.6	2.1	-0.3	0.0	2.3
5	4.8	23.5	27.0	17.2	6.3	3.6	1.7	4.8	2.5	0.2	0.0	2.0
6	4.8	22.1	25.6	16.8	6.0	3.2	1.5	3.8	1.9	0.1	0.0	1.7
7	5.3	24.8	18.7	16.4	5.8	3.0	1.2	3.4	1.7	0.2	-0.1	1.5
8	7.4	28.9	16.1	20.3	5.6	2.8	1.2	3.2	1.3	0.3	-0.1	1.4
9	8.5	31.6	14.3	22.3	5.8	2.6	1.3	2.9	0.5	0.3	-0.1	1.3
10	8.9	32.0	13.2	24.2	6.3	2.5	1.5	2.5	0.9	0.2	-0.1	1.0
11	11.0	31.6	12.1	24.0	6.3	2.4	1.7	2.2	0.9	0.2	-0.1	7.5
12	17.5	29.7	10.9	22.1	5.7	2.3	1.7	2.0	0.8	0.4	-0.1	14.6
13	18.0	26.8	9.8	19.4	5.1	2.4	1.5	1.7	0.6	0.6	-0.1	15.6
14	16.3	24.7	13.2	17.1	5.1	2.6	1.3	1.5	0.5	0.4	-0.1	15.5
15	13.9	20.6	16.0	14.1	5.0	2.8	1.1	1.4	1.3	0.5	-0.1	14.6
16	12.7	19.2	18.3	12.0	4.8	3.3	1.0	1.3	1.8	0.4	-0.1	11.4
17	12.4	17.6	24.9	10.4	4.4	3.4	0.9	2.3	1.0	0.2	0.0	7.5
18	13.0	16.5	29.0	9.8	4.3	3.5	0.9	3.5	0.8	0.1	0.1	5.9
19	13.1	15.9	30.8	9.3	4.0	3.1	0.9	2.8	0.5	0.1	0.1	4.6
20	10.0	15.9	31.7	9.0	3.9	2.2	1.4	1.8	0.4	0.2	0.1	4.0
21	8.4	16.0	32.0	8.5	3.8	1.7	1.8	1.8	0.0	0.4	0.1	3.7
22	7.8	15.4	32.0	8.1	3.8	1.5	4.8	1.5	0.0	0.5	0.0	3.6
23	7.8	14.7	31.4	8.2	3.8	1.2	9.0	1.5	-0.1	0.8	0.4	3.5
24	8.9	13.5	30.0	9.4	4.9	1.2	13.7	1.8	-0.1	0.4	0.5	9.6
25	8.9	13.5	30.0	11.0	5.2	1.2	16.0	2.0	-0.1	0.4	0.6	10.5
26	9.0	13.5	28.3	14.8	5.2	1.6	11.7	1.5	-0.1	0.3	1.0	11.2
27	9.1	24.0	27.4	16.7	4.3	1.8	8.3	1.7	-0.2	0.2	3.0	12.0
28	9.0	33.0	26.1	16.7	3.8	2.1	9.5	2.7	-0.2	0.1	4.0	10.6
29	8.7	.....	24.9	15.8	3.5	2.3	10.4	2.8	-0.3	0.1	3.8	8.6
30	8.7	23.1	12.2	3.1	2.1	10.4	1.9	-0.3	0.4	3.3	6.9
31	9.0	19.3	3.0	9.2	1.9	0.4	5.5

¹34.0 at 3 p. m.

DAILY RIVER STAGES.

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Mobile River system—Alabama River, Selma, Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.4	10.0	6.1	7.5	5.2	4.8	0.6	0.1	-0.8	-1.7	-1.3	1.8
2	5.1	8.4	6.0	7.5	6.4	3.9	0.3	0.9	-0.8	-1.6	-1.2	1.8
3	5.2	7.0	6.3	9.1	7.3	2.7	0.2	0.6	-0.9	-1.8	-1.1	2.7
4	5.1	7.0	6.3	10.6	10.2	1.9	-0.1	0.4	-0.9	0.6	-1.3	3.3
5	4.8	6.4	6.0	11.9	10.0	2.3	-0.2	0.3	-1.1	1.3	-1.1	7.8
6	3.9	10.0	5.6	12.5	9.9	2.8	-0.3	0.3	-1.2	1.7	-1.0	8.3
7	3.4	17.3	8.2	12.4	8.8	2.4	-0.3	0.4	-1.3	1.9	1.9	7.6
8	3.3	23.4	10.6	11.7	7.8	2.3	2.2	0.6	-1.4	0.6	3.7	5.2
9	3.3	29.8	14.7	10.2	6.8	2.8	5.3	0.9	-1.6	0.3	3.3	4.6
10	3.2	31.7	15.6	9.0	5.6	3.2	6.3	0.4	-1.7	0.1	3.3	3.6
11	3.3	32.8	15.6	7.4	4.8	3.8	8.2	0.0	-1.8	-0.2	2.9	2.8
12	3.0	32.6	14.7	6.4	4.7	4.2	9.3	-0.2	-1.9	-0.5	2.9	2.3
13	3.0	31.0	16.3	5.8	3.0	4.2	10.9	-0.3	-1.9	-0.6	5.0	2.0
14	3.0	28.7	16.9	5.4	2.8	3.4	10.8	-0.4	-1.9	-0.9	6.6	1.8
15	2.9	26.7	15.3	5.2	2.8	2.6	8.8	-0.4	-1.9	-0.9	8.5	1.8
16	2.9	14.8	14.0	5.0	3.1	1.7	7.4	-0.5	-1.9	-1.2	6.6	1.6
17	3.0	10.6	13.2	5.0	3.2	1.4	6.0	-0.7	-1.9	-1.3	7.0	2.0
18	3.9	10.6	10.7	4.6	3.0	1.2	8.9	-0.8	-1.9	-1.5	6.7	2.8
19	7.6	10.4	10.9	4.2	2.2	1.2	10.5	-0.9	-1.9	-1.9	6.4	3.0
20	7.3	10.3	12.5	4.0	1.7	2.7	10.0	-0.9	-1.9	-1.9	6.3	2.3
21	7.3	10.0	14.9	3.9	1.2	4.3	8.5	-1.0	-1.9	-1.9	2.6	1.9
22	9.8	9.9	15.9	3.5	1.0	4.7	7.1	-1.1	-1.9	-1.9	1.6	1.7
23	17.0	8.5	15.4	3.2	0.9	6.3	7.0	-1.2	-1.9	-1.9	1.0	1.6
24	23.0	7.9	14.0	3.1	0.9	6.7	6.3	-1.2	-0.9	-1.9	0.8	1.2
25	24.8	7.5	13.4	3.0	1.0	6.0	4.9	-1.0	3.4	-1.6	0.5	1.0
26	24.2	6.8	13.4	3.0	1.5	4.6	2.3	-0.8	2.0	-1.4	0.3	0.8
27	22.3	6.5	13.2	2.8	1.7	2.0	1.9	-0.9	0.0	-1.3	0.0	0.6
28	19.8	6.3	10.9	2.7	1.4	1.6	1.0	0.0	-0.9	-1.3	-0.1	0.6
29	17.5	6.2	9.6	3.4	1.5	1.0	0.8	-0.3	-1.5	-1.3	-0.3	0.3
30	14.0		8.7	3.6	2.0	0.8	0.4	-0.6	-1.7	-1.3	-0.1	0.3
31	12.5		7.8		4.8		0.2	-0.7		-1.3		0.3

1897.

1	0.2	2.6	17.8	13.8	8.0	2.3	0.8	2.2	0.6	-2.0	-1.3	-1.6
2	0.2	2.6	15.4	12.2	9.5	1.9	0.8	2.6	0.5	-2.0	-1.6	-1.4
3	0.4	3.2	12.5	14.7	11.0	1.7	0.5	2.3	0.5	-2.0	-1.6	-1.0
4	0.4	6.2	11.0	15.8	9.5	1.5	0.6	1.2	0.4	-2.0	-1.3	-1.0
5	0.4	7.9	9.5	15.8	8.3	1.5	0.7	0.7	0.3	-2.0	-1.5	-0.6
6	0.5	10.8	15.6	16.0	7.4	1.5	1.6	0.3	-0.4	-2.0	-1.3	-0.4
7	0.4	13.0	29.5	16.9	7.4	1.6	2.0	0.2	-0.6	-2.0	-1.6	-0.2
8	0.4	14.9	35.0	18.2	6.6	1.9	2.2	0.0	-0.3	-2.0	-1.6	0.3
9	0.4	16.1	36.9	19.5	6.4	2.2	1.8	0.5	-0.3	-2.0	-1.6	1.0
10	0.3	16.2	37.7	21.6	6.2	2.0	1.8	1.1	-0.5	-2.0	-1.6	2.1
11	0.3	14.8	37.0	24.0	5.8	2.0	1.9	1.2	-0.7	-2.0	-1.3	2.7
12	0.3	17.0	35.1	25.0	5.4	2.0	2.4	0.8	-0.9	-2.0	-0.9	2.6
13	0.3	21.5	34.5	24.0	5.4	1.6	2.6	0.8	-0.9	-2.0	-0.7	2.7
14	0.3	25.5	35.5	21.3	5.0	1.6	3.2	1.8	-1.1	-2.0	-0.8	3.0
15	0.2	27.5	37.5	17.5	5.5	1.5	3.9	1.9	-1.1	-2.0	-1.0	3.3
16	0.2	26.6	39.5	15.0	6.0	1.6	3.3	1.9	-1.1	-2.0	-1.3	4.5
17	0.2	24.2	40.7	14.5	6.5	1.7	2.0	1.7	-1.1	-2.0	-1.6	4.2
18	1.0	21.0	40.6	13.6	6.8	1.7	1.6	1.6	-1.1	-2.0	-1.8	3.8
19	4.0	17.4	39.5	12.5	6.9	1.7	1.4	1.5	-1.1	-2.0	-1.8	3.4
20	6.8	14.2	38.3	11.5	6.4	1.5	2.0	2.0	-1.1	-1.0	-1.8	3.0
21	8.2	11.0	36.5	10.5	6.0	1.5	1.4	3.2	-1.2	-0.8	-1.8	3.0
22	12.8	9.2	35.3	9.5	5.8	1.4	4.9	6.8	-1.2	-1.0	-1.8	3.0
23	14.8	8.0	35.8	8.3	5.2	1.3	7.8	7.6	-1.5	-1.3	-1.8	2.7
24	14.2	7.7	37.1	8.0	5.0	1.2	8.8	8.2	-1.6	-1.3	-1.8	2.2
25	13.6	8.0	40.3	7.7	4.6	1.1	9.8	5.7	-1.8	-1.3	-1.8	2.0
26	12.2	14.6	41.5	7.7	4.6	1.0	9.6	3.9	-1.8	-1.7	-1.8	3.0
27	10.0	17.6	40.8	7.5	4.0	0.9	8.4	3.0	-1.9	-1.9	-1.6	4.5
28	9.0	18.7	38.0	7.0	3.9	0.9	6.5	2.0	-2.0	-1.9	-1.6	6.0
29	6.0		33.3	7.0	3.3	0.9	4.2	1.6	-2.0	-1.6	-1.6	5.4
30	3.5		26.4	7.0	3.0	0.8	3.0	1.4	-2.0	-1.6	-1.6	4.8
31	2.5		19.5		2.6		2.3	0.8		-1.3		3.8

DAILY RIVER STAGES.

Mobile River system—Alabama River, Selma, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.4	14.8	1.6	5.0	8.9	-0.6	0.9	4.9	7.5	2.0	3.8	9.8
2	3.0	14.0	1.2	8.0	7.6	-0.6	0.8	5.8	7.6	1.8	3.4	9.3
3	3.0	9.7	1.4	9.8	6.0	-0.4	0.4	6.3	6.4	1.0	3.4	8.6
4	2.1	7.0	1.4	11.3	4.6	-0.5	-0.5	6.8	5.6	0.9	3.0	9.2
5	1.6	3.6	1.5	13.8	3.6	-0.5	-0.8	6.2	4.9	0.9	3.0	12.0
6	1.2	3.0	1.8	17.0	3.6	-0.6	-0.8	9.9	2.7	12.9	3.0	12.7
7	1.2	3.0	2.2	21.7	3.6	-0.6	-0.9	11.0	9.8	19.4	2.9	11.4
8	1.0	3.0	2.2	23.0	3.2	-0.7	-0.9	10.9	14.6	23.6	3.1	9.8
9	0.8	3.0	2.0	23.0	2.7	-0.8	-0.4	12.0	16.9	24.8	3.6	8.9
10	0.9	2.8	1.7	21.4	2.4	-1.1	1.1	12.8	17.9	27.8	3.8	9.2
11	0.9	2.6	1.6	19.1	2.1	-1.2	2.9	12.1	18.0	28.5	5.9	10.8
12	0.8	2.6	1.5	16.9	1.9	-1.3	2.9	16.6	17.6	27.7	7.4	11.4
13	1.0	2.6	1.4	13.8	1.6	-0.9	1.8	22.7	15.8	25.6	7.8	10.9
14	1.2	2.6	1.2	10.7	1.5	-1.3	1.7	21.4	12.0	23.0	7.9	10.0
15	2.4	2.4	1.2	8.5	1.5	-1.3	1.7	17.4	8.7	18.8	8.2	8.8
16	2.8	2.0	1.4	6.8	1.2	-0.5	2.9	15.1	7.0	17.6	9.7	7.9
17	3.3	2.0	1.4	6.5	1.1	0.0	3.5	11.9	5.6	8.4	9.7	6.4
18	3.8	1.6	1.8	5.6	1.1	-0.6	5.4	8.7	4.2	6.8	9.8	6.0
19	4.8	1.6	1.8	4.9	1.1	-0.5	4.6	6.5	3.3	6.2	11.8	5.6
20	5.2	1.6	2.3	5.0	1.1	-0.3	4.6	4.9	2.7	6.9	15.2	5.6
21	5.6	2.0	4.1	4.7	0.5	0.0	4.5	4.7	2.5	8.2	16.9	7.2
22	5.8	3.1	5.6	5.2	0.3	0.4	3.4	4.6	2.0	9.4	16.3	11.9
23	6.3	2.7	5.2	7.3	0.2	0.4	2.0	4.3	1.6	9.3	15.6	13.4
24	7.0	1.8	4.6	9.3	0.0	0.5	1.1	3.7	1.6	8.6	16.0	12.8
25	8.5	1.4	4.0	12.7	-0.1	0.6	0.3	3.2	1.8	8.6	16.9	11.7
26	8.5	1.4	2.2	15.0	-0.1	1.2	0.3	2.8	2.0	7.4	15.6	10.9
27	9.0	1.4	1.9	14.8	-0.2	1.4	0.2	3.0	4.6	6.3	13.6	9.4
28	11.8	1.6	1.6	13.8	-0.2	1.2	1.8	7.2	5.3	6.1	11.8	8.9
29	13.9		1.4	12.6	-0.3	1.2	2.9	8.5	3.8	5.0	10.2	7.2
30	15.0		1.4	10.7	-0.3	1.1	3.5	7.8	2.7	4.6	9.3	6.7
31	15.4		2.2		-0.3		4.0	6.9		4.2		6.2

1899.

1	6.2	10.8	35.8	23.8	13.9	4.5	2.5	11.1	3.7	-1.2	-0.2	4.8
2	6.2	17.0	38.6	24.3	11.5	4.0	2.5	9.9	4.3	-1.3	-0.3	3.7
3	6.5	20.2	38.8	24.9	9.9	4.0	2.6	9.0	4.6	-1.3	-0.5	3.0
4	6.2	24.0	37.7	24.1	9.8	4.0	2.6	6.7	4.8	-1.3	-0.6	3.0
5	6.2	26.8	35.3	22.3	8.5	3.8	2.1	6.5	4.4	-1.1	-0.7	2.8
6	5.8	27.2	32.6	20.9	8.1	3.9	1.6	5.8	4.4	-1.0	-0.7	2.8
7	6.6	27.2	30.5	20.0	7.5	3.8	1.6	5.3	4.1	-1.6	-0.8	1.7
8	8.3	29.8	27.5	19.8	7.4	3.7	1.5	4.7	3.9	-0.5	-0.8	1.7
9	9.7	32.2	23.4	23.3	7.3	3.3	1.4	4.5	3.6	-0.4	-0.8	1.3
10	11.6	33.9	19.7	25.6	7.3	3.1	1.3	3.7	0.6	-0.4	-0.9	1.3
11	13.9	34.4	16.9	26.9	7.5	2.8	1.3	3.5	0.4	-0.5	-0.9	1.4
12	14.8	33.5	15.0	26.6	7.2	2.3	1.2	3.0	0.3	-0.6	-1.0	4.0
13	21.2	32.0	13.9	25.1	6.8	2.6	1.5	2.9	0.3	-0.6	-1.1	10.4
14	21.9	30.0	16.2	22.6	6.5	2.4	1.2	2.7	0.2	-0.2	-1.2	16.6
15	19.8	28.0	16.8	19.5	6.3	2.4	1.1	2.6	0.2	-0.2	-1.2	17.8
16	18.0	26.5	19.4	16.3	6.2	2.3	1.0	2.6	0.1	-0.2	-1.3	16.3
17	17.5	26.8	21.4	14.0	6.1	2.8	1.0	2.6	0.6	-0.3	-1.3	13.4
18	17.2	24.0	27.7	13.0	5.6	3.4	0.7	3.6	1.3	-0.5	-1.3	9.9
19	17.0	22.3	31.6	12.0	5.4	3.9	0.6	4.1	1.0	-0.7	-1.2	8.4
20	15.8	19.9	33.5	11.2	5.0	3.9	0.6	4.3	0.9	-0.6	-1.0	3.8
21	14.2	19.9	34.7	10.5	4.8	3.1	1.0	3.6	0.6	-0.7	-1.0	3.8
22	12.6	19.5	34.8	10.4	4.5	2.8	1.6	3.5	-0.6	-0.8	-0.6	3.4
23	10.2	18.8	34.2	10.2	4.4	1.6	5.5	3.4	-0.7	-0.2	-0.6	3.4
24	10.3	17.8	33.4	10.1	4.8	1.4	10.7	3.1	-0.8	0.0	-0.3	3.8
25	9.4	17.3	31.1	12.4	5.0	1.4	14.8	3.6	-1.0	0.0	0.1	7.6
26	9.0	16.4	32.6	13.5	6.0	1.6	17.0	4.2	-1.0	-0.5	0.2	12.2
27	8.9	20.3	31.8	16.3	6.1	1.7	17.0	3.9	-1.0	-0.5	0.9	13.5
28	8.6	31.2	30.5	17.9	5.2	2.0	14.9	3.6	-1.0	-0.6	3.2	13.7
29	8.6		29.3	17.7	4.5	2.2	13.1	4.3	-1.1	-0.6	4.6	12.3
30	9.0		27.8	16.1	4.3	2.4	12.8	4.6	-1.1	-0.6	4.8	11.4
31	9.6		26.3		4.2		11.9	3.8		-0.4		8.3

DAILY RIVER STAGES.

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Mobile River system—Alabama River, Claiborne, Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		14.0	7.8	11.5	11.5							
2		13.3	7.5	11.3	11.5							
3		12.0	7.2	11.0	11.6							
4		12.2	7.2	11.0	11.8							
5		13.2	7.2	10.9	11.9							
6		15.0	7.3	10.8	11.9							
7		18.0	7.5	10.8	11.8							
8		21.0	8.0	10.7	11.6							
9		23.0	9.5	10.7	11.4							
10		27.0	9.7	10.6	11.3							
11		29.2	10.9	10.4	11.3							
12		29.7	14.0	10.2	11.2							
13		30.2	19.0	10.0	11.2							
14		30.9	18.7	10.0	11.0							
15		30.8	18.3	10.1	10.9							
16		30.2	17.5	10.0	10.9							
17		28.4	17.0	10.0	10.7							
18		24.0	16.4	10.0	10.7							
19		22.0	16.0	9.8	10.9							
20		19.0	15.6	9.8	11.0							
21		17.0	15.2	9.7	11.2							
22		16.0	15.2	9.7	11.4							
23		14.0	15.4	9.8	11.3							
24		12.5	16.0	9.8	11.2							
25		11.0	17.0	10.0	11.0							
26		10.0	17.9	10.2	11.0							
27		9.0	17.9	10.6	10.8							
28		8.5	17.0	10.8	10.6							
29		8.0	16.0	11.0	10.5							
30			14.8	11.3	10.5							
31			12.0		10.3							

DAILY RIVER STAGES.

*Mobile River system (Alabama River branch)—Coosa River, Gadsden, Ala.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		3.2	3.1	3.4	1.5							
2		2.9	2.7	5.4	1.3							
3		2.9	2.5	8.7	1.1							
4		3.0	2.4	8.5	1.5							
5		3.2	2.1	9.0	2.6							
6		6.2	2.1		2.3							
7		11.9	2.2	5.8	2.2							
8		15.0	2.4	4.3	1.9							
9		16.1	2.4	3.5	1.5							
10		16.1	2.2	3.1	1.1							
11		15.6	2.7	2.8	1.0							
12		14.0	4.0	2.6	0.6							
13		10.6	4.5	2.5	0.6							
14		8.4	4.3	2.2	0.5							
15		8.4	3.8	2.0	0.4							
16		8.5	3.4	1.9	0.3							
17		8.0	4.7	1.8	0.2							
18		6.9	5.5	1.7	0.2							
19		5.6	6.3	1.6	0.2							
20		4.7	8.2	1.4	0.0							
21		4.1	8.1	1.3	0.0							
22		3.7	7.2	1.3	0.0							
23		3.3	6.3	1.3	0.3							
24		2.9	5.3	1.3	0.4							
25		2.8	4.6	1.4	0.3							
26		2.7	4.2	1.5	0.2							
27		2.6	3.8	1.8	0.3							
28		2.5	3.6	1.4	0.3							
29		3.0	3.4	1.5	0.5							
30			2.9	1.3	0.5							
31			3.1		0.4							

1897.

1		1.0	5.2		2.7		0.0	1.0	-0.2	-0.7	-0.4	-0.2
2		3.6	4.2		3.5		0.5	0.5	-0.2	-0.8	-0.2	-0.1
3		9.1		8.8	4.0		0.5	0.2	-0.2	-0.8	-0.2	0.1
4		11.0	5.0	10.1	3.5		0.5	0.2	-0.2	-0.8	-0.2	0.8
5		10.7	5.3	12.2	2.9		0.5	0.2	-0.2	-0.8	-0.2	1.7
6		11.0	7.7	14.4	2.8		0.5	0.2	-0.2	-0.8	-0.2	3.0
7		11.0	16.1	16.1	2.4		0.5	0.2	-0.2	-0.8	-0.2	3.0
8		8.8	19.8	16.5	2.3		0.5	0.7	-0.2	-0.8	-0.2	3.0
9		7.5	19.2		2.1		1.0	1.3	-0.2	-0.8	-0.2	2.1
10		6.7	18.5		1.9		2.0	1.4	-0.2	-0.8	-0.3	0.7
11		6.4	17.3		1.9		1.3	1.4	-0.2	-0.8	-0.3	0.7
12		9.4	17.5		1.9		1.8	2.0	-0.3	-0.6	-0.3	0.6
13		11.0	18.7	8.5	2.4		1.4	1.7	-0.4	-0.6	-0.4	0.4
14		10.8	20.1	6.9	3.9		1.4	1.3	-0.5	-0.6	-0.4	0.8
15		9.8	21.7	6.5	4.5		1.2		-0.5	-0.6	-0.4	2.0
16		8.0	21.9	6.6	4.9		0.7		-0.5	-0.6	-0.4	2.7
17			22.2	6.8	4.7		0.5	0.5	-0.5	-0.6	-0.4	
18		5.1	22.2	6.5	3.8		3.0	1.1	-0.5	-0.6	-0.4	
19		4.3	22.1	5.7	3.2		6.0	2.2	-0.5	-0.6	-0.4	1.2
20		3.9	22.3	5.0	2.2		6.0	2.0	-0.5	-0.4	-0.4	1.1
21		4.5	22.2	4.5	2.0		7.7	1.4	-0.5	-0.3	-0.4	2.0
22		5.0	21.9	4.0	1.8		10.1	0.7	-0.5	-0.3	-0.4	2.8
23		6.8	21.3	3.8	1.6		9.7	0.5	-0.6	-0.3	-0.4	5.7
24		10.0	19.1	3.8	1.4		5.5	0.5	-0.7	-0.3	-0.4	6.3
25		12.5	16.5	3.6	1.3		3.9	0.5	-0.7	-0.3	-0.4	6.0
26		11.7	13.5	3.4	1.2		2.7	0.5	-0.7	-0.3	-0.4	4.0
27		9.4	9.6	3.2	1.1		1.4	0.3	-0.7	-0.4	-0.2	3.4
28		6.7	7.1	3.0	1.1		1.4	0.1	-0.7	-0.4	0.0	2.8
29			6.0	2.8	1.0			0.0	-0.7	-0.4	0.0	2.7
30			5.4	2.8	1.0		1.8	-0.1	-0.7	-0.4	-0.1	2.4
31			5.1		1.0			-0.2		-0.4		1.9

DAILY RIVER STAGES.

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Mobile River system (Alabama River branch)—Coosa River, Gadsden, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.6	5.5	0.6	10.5	3.6	0.4	0.0	5.0	1.2	1.0	2.2	4.1
2	1.4	4.2	0.6	10.4	3.4	0.4	0.0	4.3	1.0	0.8	2.1	4.2
3	1.1	3.8	0.9	8.3	2.9	0.4	-0.1	4.8	2.0	0.7	2.0	4.0
4	0.9	3.5	0.8	5.8	2.6	0.3	-0.2	3.9	12.0	3.0	1.9	3.9
5	0.8	2.6	0.8	9.0	2.4	0.3	-0.3	4.0	15.0	12.4	1.8	3.8
6	0.8	2.6	0.8	13.8	2.3	0.3	-0.3	7.0	16.7	17.5	1.8	4.4
7	0.7	2.4	0.8	15.8	2.0	0.2	-0.3	6.6	17.0	19.5	1.8	4.9
8	0.7	2.0	0.8	15.8	1.7	0.2	-0.3	6.0	17.3	22.0	1.8	4.7
9	0.7	1.9	0.7	14.2	1.5	0.1	0.5	5.0	17.0	21.2	2.3	4.0
10	0.7	1.9	0.6	10.2	1.4	0.1	1.2	4.4	15.2	20.3	2.0	3.6
11	0.8	1.7	0.6	7.2	1.2	0.0	1.8	4.5	11.6	19.0	2.0	3.3
12	0.9	1.7	0.5	5.3	1.2	0.0	1.0	8.0	6.4	15.5	1.8	2.9
13	1.1	1.3	0.5	4.5	1.1	0.0	1.5	8.9	5.5	7.9	2.0	2.6
14	1.2	1.3	0.6	4.1	1.1	0.0	0.9	7.0	4.0	4.1	2.3	2.6
15	1.4	1.3	0.7	3.9	1.0	0.0	1.3	4.5	3.0	4.1	2.6	2.5
16	1.6	1.1	1.5	3.4	0.9	-0.1	2.8	3.1	2.5	3.5	3.0	2.4
17	1.8	1.0	3.0	3.5	0.9	0.7	3.2	2.5	2.2	3.3	3.0	2.3
18		1.0	5.3	3.3	0.9	1.2	2.2	2.0	2.0	5.0	2.8	2.2
19		1.0	6.5	4.3	0.8	0.9	1.0	1.5	1.9	8.0	3.3	2.1
20		0.9	4.5	6.5	0.7	0.5	0.5	1.8	1.6	9.4	3.5	4.2
21		0.9	3.4	7.0	0.6	0.4	0.1	1.9	1.4	9.5	5.3	5.3
22	7.1	0.9	2.6	5.4	0.6	1.8	0.0	2.0	1.5	7.0	5.9	5.0
23	7.7	0.9	2.1	4.7	0.5	2.1	0.0	1.8	4.0	5.0	7.0	4.5
24	7.2	0.9	1.9	7.0	0.5	1.6	0.0	2.5	5.7	4.8	7.0	4.2
25	8.0	0.8	1.5	9.9	0.4	0.8	0.0	1.8	5.2	4.4	6.9	4.1
26	11.6	0.7	1.5	10.0	0.7	0.6	0.7	1.0	4.7	4.0	6.3	4.0
27	14.5	0.6	1.4	8.7	0.7	0.4	2.8	1.0	2.4	3.4	5.4	3.4
28	15.4	0.6	1.4	6.8	0.6	0.6	3.0	2.4	1.8	3.0	4.3	3.0
29	14.5		1.3	5.5	0.5	0.2	3.5	3.6	1.3	3.0	5.0	2.7
30	11.4		3.2	4.7	0.4	0.1	4.4	3.0	1.0	2.7	4.2	2.6
31	8.3		7.5		0.4		4.8	1.7		2.4		2.6

1899.

1	2.7	6.7	17.8	13.6	5.4	2.2	0.9	3.4	1.6	-0.8	-0.7	1.1
2	2.7	8.3	18.3	13.9	5.0	2.8	0.7	2.0	2.9	-0.8	-0.7	0.3
3	3.1	8.9	18.3	13.5	4.5	2.4	0.6	1.6	2.0	-0.8	-0.7	0.3
4	3.1	9.3	18.2	11.5	4.2	2.0	0.6	1.1	1.0	-0.8	-0.7	0.3
5	2.8	15.7	14.1	10.5	4.0	1.6	0.5	1.0	0.4	-0.8	-0.7	0.2
6	2.8	19.8	10.7	10.6	3.8	1.5	0.4	0.7	0.2	-0.8	-0.7	0.1
7	3.8	20.5	10.6	11.2	4.5	1.3	0.4	0.5	0	-0.7	-0.7	0.0
8	4.8	21.5	10.0	15.0	4.7	1.2	0.4	0.4	0	-0.6	-0.7	0.0
9	6.0	21.3	8.7	17.0	4.0	1.1	0.6	0.4	-0.1	-0.6	-0.7	-0.2
10	6.5	21.0	7.4	17.4	3.9	1.1	0.9	0.4	-0.1	0.0	-0.7	-0.2
11	6.5	20.6	6.4	15.7	3.6	1.1	0.6	0.3	-0.2	-0.2	-0.7	0.3
12	6.3	20.1	6.0	13.0	3.6	1.2	0.5	0.2	-0.3	0.5	-0.8	5.4
13	6.0	19.5	5.8	10.0	3.3	1.4	0.4	0.1	-0.1	0.4	-0.8	10.8
14	5.6	17.8	8.0	8.1	3.3	2.0	0.3	0.0	1.3	0.0	-0.8	9.4
15	5.4	12.4	16.0	7.2	3.2	3.3	0.3	0.0	0	-0.3	-0.8	7.0
16	5.0	6.7	23.1	7.0	3.0	3.3	0.2	-0.2	0.4	-0.6	-0.5	5.1
17	5.4	7.3	24.1	6.3	2.8	2.4	0.2	-0.2	-0.4	-0.6	-0.7	3.3
18	5.8	9.1	23.5	5.8	2.7	2.0	0.2	0.8	-0.4	-0.6	-0.8	2.3
19	5.5	10.2	24.0	5.5	2.7	1.4	0.2	0.7	-0.5	-0.6	-0.8	2.0
20	5.2	10.8	24.3	5.4	2.7	1.0	0.2	0.6	-0.6	-0.6	-0.8	0.9
21	5.0	10.0	24.8	5.6	2.4	0.9	0.6	0.5	-0.6	-0.6	-0.8	2.5
22	4.5	10.6	24.4	5.0	2.1	0.9	0.8	0.4	-0.6	-0.5	-0.8	2.3
23	3.8	10.4	24.0	5.2	2.0	0.8	3.3	0.2	-0.6	-0.5	-0.7	2.4
24	3.8	10.0	23.5	10.2	2.0	0.7	5.3	0.1	-0.6	-0.6	-0.5	5.4
25	4.2	9.0	22.8	13.0	1.9	0.7	3.5	-0.1	-0.7	-0.6	0.8	8.9
26	4.7	10.1	23.5	12.9	1.9	0.7	2.8	-0.2	-0.7	-0.6	2.0	9.5
27	4.5	11.9	20.7	12.4	1.8	0.7	2.8	-0.1	-0.7	-0.7	3.0	7.8
28	4.2	14.8	17.4	10.4	1.6	0.7	3.8	0.0	-0.7	-0.7	3.0	5.5
29	3.8		13.0	7.8	1.4	1.2	7.0	0.0	-0.8	-0.7	2.7	4.3
30	3.4		11.0	6.5	1.6	1.0	6.0	1.5	-0.8	-0.7	1.8	3.6
31	3.5		11.9		2.2		4.8	1.5		-0.7		3.1

Mobile River system (Alabama River branch)—Coosa River, Lock No. 4 (Lincoln), Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.6	3.8	3.4	3.5	2.5	1.3	0.6	1.3	0.6	0.2	0.7	1.5
2	4.1	3.5	3.3	5.2	2.4	1.3	0.5	1.1	0.6	2.0	1.2	2.8
3	4.1	3.4	3.0	7.0	2.2	1.4	0.5	1.2	0.3	3.5	1.0	4.7
4	3.5	3.5	2.8	8.5	2.1	1.4	0.5	1.4	0.2	3.0	0.6	4.6
5	2.9	3.5	2.8	7.3	2.8	2.1	0.4	1.4	0.2	2.9	0.5	3.6
6	2.5	6.5	2.7	7.3	2.9	2.0	0.5	1.4	0.1	1.1	0.5	2.7
7	2.1	10.0	3.0	6.8	2.9	1.8	1.0	1.2	0.1	0.6	0.5	2.2
8	2.0	11.8	3.1	5.0	2.7	1.7	2.7	1.0	0.1	0.5	2.5	1.9
9	1.8	13.7	3.0	4.1	2.4	1.6	4.7	0.9	0.1	0.4	2.5	1.7
10	1.9	13.4	2.9	3.6	2.1	1.6	6.2	0.7	0.0	0.3	1.7	1.6
11	2.1	13.0	3.4	3.6	1.8	2.4	7.5	0.5	0.0	0.3	1.1	1.5
12	2.4	11.8	4.7	3.6	1.8	2.0	7.0	0.5	0.0	0.2	1.3	1.4
13	2.3	10.0	5.2	3.0	1.5	1.4	4.8	0.5	0.0	0.2	2.2	1.5
14	2.0	8.7	4.8	2.9	1.4	1.4	2.8	0.5	0.1	0.2	2.6	1.5
15	1.8	7.8	4.4	2.7	1.3	1.4	2.6	1.0	0.0	0.2	4.0	1.6
16	1.8	7.6	4.1	2.5	1.2	1.3	2.4	0.6	0.0	0.2	6.0	1.4
17	2.8	7.6	5.0	2.5	1.2	1.0	2.8	0.5	0.0	0.1	5.4	1.7
18	3.4	6.8	5.8	2.4	1.2	0.8	2.8	0.5	0.0	0.1	4.4	2.0
19	4.1	6.0	6.8	2.4	1.1	0.9	3.3	0.5	0.0	0.2	3.8	2.0
20	4.0	5.2	7.7	2.2	1.1	0.8	3.9	0.5	-0.1	0.2	1.8	1.7
21	3.6	4.5	8.0	2.1	1.1	0.8	3.4	0.4	0.1	0.2	1.4	1.4
22	4.4	4.1	7.4	2.0	1.0	1.0	2.6	0.4	0.0	0.2	1.3	1.3
23	6.9	3.9	6.5	2.0	1.1	1.0	2.2	0.4	0.0	0.1	1.1	1.3
24	9.0	3.5	5.7	2.0	1.4	1.1	2.0	0.4	0.0	0.1	1.0	1.3
25	9.6	3.2	5.2	2.0	0.9	1.2	1.9	0.5	0.0	0.1	0.9	1.1
26	10.0	3.2	4.8	2.2	1.2	1.0	2.0	0.4	0.1	0.1	0.9	1.0
27	10.0	3.0	4.3	2.5	1.5	0.9	2.0	0.5	0.1	0.2	0.9	1.0
28	8.7	3.0	4.0	2.7	1.5	0.9	1.9	0.7	0.0	0.2	0.9	0.9
29	7.8	3.1	4.0	2.4	1.3	0.8	1.5	0.8	0.1	0.5	0.9	0.9
30	5.2	-----	3.6	2.2	1.5	0.7	1.3	0.8	0.2	0.5	1.3	0.8
31	4.4	-----	3.4	-----	1.4	-----	1.2	0.7	-----	0.5	-----	0.8

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.8	2.0	5.8	5.1	3.4	1.9	1.1	1.9	0.8	0.1	0.3	0.4
2	0.8	2.8	4.9	5.6	3.3	1.9	1.1	1.6	0.7	0.1	0.4	0.6
3	0.8	6.2	4.4	7.6	3.9	1.9	1.4	1.5	0.7	0.1	0.3	0.9
4	1.0	8.8	4.4	8.2	4.0	2.1	1.3	1.3	0.8	0.1	0.3	1.2
5	0.9	9.3	5.5	9.9	3.4	2.1	1.2	1.2	1.0	0.0	0.3	1.6
6	0.9	9.7	6.5	11.0	3.2	2.4	1.3	1.4	0.8	0.0	0.9	2.6
7	0.9	10.2	13.0	12.0	3.0	2.3	1.8	1.3	0.7	-0.1	0.9	3.6
8	1.0	9.2	14.8	12.7	2.9	2.0	2.5	1.2	0.6	-0.2	0.8	3.7
9	1.2	7.5	15.1	13.8	2.8	1.8	2.1	1.5	0.5	-0.2	0.7	3.1
10	1.1	6.7	14.5	13.7	2.7	1.7	2.4	2.0	0.4	-0.2	0.6	2.4
11	1.0	6.8	14.6	12.3	2.6	1.6	2.5	2.1	0.4	0.0	0.5	2.0
12	0.9	8.6	15.0	10.0	2.6	1.7	3.0	2.1	0.4	0.0	0.4	1.4
13	0.8	9.7	15.5	8.5	3.0	1.7	2.2	2.6	0.4	0.0	0.4	1.1
14	1.0	9.7	15.9	7.5	3.5	1.6	2.2	2.1	0.4	0.0	0.4	1.6
15	2.3	9.0	17.0	6.7	4.5	1.5	2.2	1.8	0.4	1.0	0.4	1.8
16	4.3	8.0	16.8	6.4	4.5	1.4	1.6	1.5	0.3	1.6	0.4	2.6
17	5.7	6.6	17.0	6.4	4.7	1.3	1.6	1.3	0.3	1.2	0.3	3.4
18	6.2	5.0	17.0	6.2	4.5	1.4	1.9	1.5	0.3	0.7	0.3	3.3
19	6.0	5.0	16.9	6.0	3.6	1.8	3.8	1.5	0.3	0.5	0.3	2.8
20	5.5	4.5	17.9	5.2	3.0	2.4	5.5	2.0	0.3	0.4	0.3	2.2
21	7.6	5.2	17.1	4.8	2.7	1.8	6.0	2.4	0.2	0.3	0.3	2.1
22	8.2	5.8	16.9	4.0	2.5	1.5	7.5	1.6	0.2	0.3	0.3	3.1
23	8.7	7.2	16.7	4.2	2.4	1.3	8.9	1.5	0.1	0.4	0.3	4.8
24	8.3	9.5	15.6	4.0	2.3	1.3	7.4	1.4	0.1	0.4	0.3	5.7
25	6.5	10.1	13.8	3.8	2.2	1.4	5.3	1.6	0.1	0.4	0.3	5.7
26	4.8	10.2	11.8	3.6	2.2	1.2	3.9	1.6	0.1	0.6	0.3	5.3
27	3.9	9.3	10.0	3.6	2.1	1.1	2.9	1.6	0.1	0.5	0.3	4.4
28	3.4	7.5	7.5	3.5	1.9	1.1	2.4	1.3	0.1	0.4	0.3	3.7
29	2.9	-----	6.3	3.4	1.9	1.3	3.0	1.1	0.1	0.3	0.4	3.3
30	2.6	-----	5.6	3.7	1.8	1.3	2.9	1.0	0.1	0.3	0.4	3.0
31	2.4	-----	5.2	-----	1.8	-----	2.4	0.9	-----	0.3	-----	2.9

DAILY RIVER STAGES.

235

*Mobile River system (Alabama River branch)—Coosa River, Lock No. 4 (Lincoln), Ala.—Continued.*1898.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.0	6.3	1.5	8.2	4.5	1.1	0.9	4.8	2.1	1.4	3.0	4.5
2	3.0	4.9	1.5	9.0	4.0	1.0	0.8	4.5	1.8	1.4	2.8	4.4
3	2.4	4.2	1.8	8.0	3.6	1.0	0.7	4.5	2.0	1.6	2.7	4.3
4	2.1	3.4	1.8	6.2	3.3	1.1	0.7	4.5	6.4	2.0	2.6	4.1
5	1.7	3.4	1.7	7.1	3.1	1.1	0.4	3.7	10.4	8.1	2.4	4.0
6	1.6	3.1	1.6	10.5	2.8	1.0	0.5	4.3	12.0	12.8	2.5	4.3
7	1.5	2.8	1.7	12.1	2.8	0.9	0.7	6.5	12.7	13.6	2.4	4.6
8	1.5	2.7	1.7	12.3	2.4	0.8	0.7	6.6	13.0	18.0	2.5	4.8
9	1.4	2.6	1.5	11.7	2.3	0.7	1.0	5.0	13.5	17.0	2.9	4.3
10	1.4	2.6	1.5	10.0	2.2	0.7	1.6	4.9	12.4	15.0	3.0	4.0
11	1.6	2.5	1.5	8.0	2.2	0.6	2.7	4.8	10.0	14.8	2.8	3.6
12	1.9	2.4	1.4	6.0	2.2	0.6	2.6	5.7	6.7	13.5	2.6	3.3
13	2.0	2.3	1.4	5.0	2.0	0.7	2.1	8.0	5.5	9.4	2.8	3.2
14	2.5	2.3	1.4	4.5	1.9	0.9	1.7	7.0	4.6	6.0	3.3	3.1
15	3.6	2.2	1.4	4.2	1.9	0.9	2.0	5.3	3.7	4.6	3.3	3.0
16	4.1	2.0	1.7	4.0	1.9	1.0	2.4	4.1	3.1	4.1	3.4	2.8
17	4.2	1.9	2.8	3.9	1.7	1.0	3.4	3.3	2.8	3.7	3.6	2.7
18	4.1	1.8	4.0	3.7	1.5	1.0	3.4	2.8	2.7	4.9	3.5	2.5
19	3.9	1.8	5.7	3.7	1.4	1.3	2.7	2.5	2.4	6.5	3.6	2.6
20	4.1	1.8	5.4	6.2	1.4	1.2	1.9	2.4	2.3	7.6	4.2	5.1
21	4.6	1.8	4.2	6.9	1.4	1.5	1.4	2.4	2.0	7.9	4.8	5.7
22	6.3	1.8	3.4	6.0	1.4	2.1	1.4	2.6	2.0	7.0	5.9	5.5
23	7.0	1.7	3.0	6.2	1.4	2.5	1.0	2.5	2.8	6.0	7.3	5.0
24	7.0	1.7	2.7	6.8	1.3	2.5	1.0	2.5	5.0	5.0	6.8	4.6
25	7.0	1.6	2.4	8.2	1.2	2.0	1.1	2.7	4.8	4.5	6.5	4.3
26	9.5	1.6	2.2	8.9	1.2	1.6	1.2	2.2	3.9	4.4	6.2	4.2
27	11.0	1.6	2.1	8.8	1.2	1.6	2.3	1.8	3.4	4.0	5.4	4.0
28	11.7	1.5	2.1	7.2	1.5	1.6	3.6	1.7	3.2	3.5	4.6	3.7
29	11.6		2.1	5.9	1.1	1.4	3.6	1.7	2.3	3.6	4.4	3.4
30	10.4		3.8	5.0	0.9	1.1	3.8	3.8	2.0	3.2	4.4	3.2
31	8.6		5.7		0.8		4.9	3.0		3.0		3.0

1899.

1	3.0	7.6	14.0	11.6	5.5	2.8	1.9	4.5	2.2	0.4	0.5	2.2
2	3.0	7.7	14.2	11.7	5.2	2.9	1.8	3.3	2.3	0.4	0.5	1.9
3	3.3	8.8	14.2	11.1	4.8	2.9	1.6	2.5	3.2	0.5	0.6	1.4
4	3.5	8.6	13.5	10.6	4.6	2.6	1.5	2.0	2.5	0.5	0.6	1.4
5	3.3	10.7	11.4	9.8	4.3	2.2	1.4	1.8	1.8	0.5	0.6	1.4
6	3.3	14.2	9.5	8.6	4.2	2.2	1.3	1.7	1.4	0.5	0.6	1.4
7	3.9	15.9	9.2	9.8	4.1	2.7	1.3	1.7	1.3	0.5	0.6	1.3
8	5.0	16.4	8.9	12.8	4.6	2.7	1.3	1.5	1.3	0.5	0.5	1.1
9	5.4	16.4	8.3	14.0	4.4	2.0	1.6	1.4	1.2	0.8	0.5	1.0
10	6.0	16.1	7.3	13.9	4.3	1.9	1.8	1.5	1.0	1.1	0.5	1.0
11	6.4	15.8	6.5	13.2	4.0	1.9	1.7	1.5	0.9	1.0	0.5	1.0
12	6.6	15.5	6.1	11.6	4.0	1.9	1.5	1.6	1.0	1.0	0.5	6.7
13	6.0	14.9	5.8	10.0	3.8	2.0	1.5	1.5	2.5	1.3	0.5	9.4
14	5.8	13.9	8.5	8.1	3.8	2.0	1.4	1.4	2.8	1.1	0.5	9.8
15	5.5	10.6	9.4	7.1	3.3	2.7	1.3	1.3	1.8	0.9	0.5	7.4
16	5.1	7.5	19.7	6.6	3.3	3.7	1.3	1.4	1.3	0.2	0.6	5.8
17	5.4	7.8	20.2	6.2	3.3	2.7	1.1	1.2	1.0	0.3	0.6	4.3
18	5.8	8.6	19.1	5.9	3.0	2.2	1.1	1.5	0.9	0.3	0.5	3.4
19	5.7	9.6	18.5	5.7	3.0	1.9	1.1	1.9	0.8	0.4	0.4	2.8
20	5.4	9.6	18.8	5.4	3.0	2.0	1.1	1.7	0.7	0.4	0.4	2.4
21	5.0	9.1	18.8	5.2	3.0	2.0	1.5	1.4	0.7	0.4	0.8	2.6
22	4.6	8.8	18.7	5.1	2.8	1.8	1.6	1.2	0.6	0.4	0.6	3.0
23	4.3	9.7	18.4	5.5	2.8	1.7	2.2	1.0	0.4	0.4	0.7	3.0
24	4.3	9.3	18.0	6.8	2.7	1.7	5.6	0.9	0.3	0.4	0.8	5.9
25	4.8	8.6	17.5	10.6	2.9	1.7	5.5	1.0	0.3	0.2	0.8	7.6
26	4.9	7.7	17.0	10.5	3.0	1.6	3.8	1.4	0.4	0.6	2.2	8.3
27	4.9	11.2	16.7	10.5	2.7	1.6	3.4	1.0	0.4	0.6	3.1	7.8
28	4.6	12.9	15.2	9.8	2.7	1.5	3.4	1.0	0.4	0.5	3.4	6.3
29	4.3		12.7	8.0	2.7	1.8	4.1	1.5	0.5	0.6	3.1	5.1
30	4.0		9.5	6.0	2.4	1.8	6.3	2.1	0.4	0.5	2.8	4.4
31	4.2		9.5		3.0		5.3	2.3		0.5		3.8

¹ U. S. Geological Survey Records.

DAILY RIVER STAGES.

*Mobile River system (Alabama River branch)—Coosa River, Wilsonville, Ala.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		4.0	3.5	3.8	3.4							
2		3.8	3.6	4.0	3.4							
3		3.6	3.6	5.0	3.5							
4		3.5	3.6	5.8	3.3							
5		3.6	3.5	5.9	3.1							
6		4.9	3.4	5.5	3.4							
7		7.8	3.4	5.1	3.5							
8		8.9	3.5	4.6	3.4							
9		10.5	3.7	4.0	3.2							
10		10.0	3.8	3.9	3.0							
11		9.6	3.9	3.6	3.0							
12		8.9	4.4	3.4	2.9							
13		7.8	4.7	3.3	2.8							
14		6.9	4.5	3.2	2.8							
15		6.1	4.3	3.1	2.7							
16		5.9	4.3	3.0	2.7							
17		5.8	4.4	3.0	2.6							
18		5.5	4.5	3.0	2.6							
19		5.0	5.0	3.0	2.5							
20		4.6	5.1	2.9	2.4							
21		4.1	6.0	2.9	2.4							
22		4.0	5.9	2.8	2.4							
23		3.8	5.3	2.8	2.4							
24		3.6	4.9	2.8	2.5							
25		3.6	4.8	2.8	2.5							
26		3.6	4.5	2.8	2.5							
27		3.6	4.3	3.0	2.5							
28		3.5	4.1	3.3	2.6							
29		3.4	3.9	3.2	2.6							
30			3.9	3.2	2.6							
31			3.8		2.6							

1897.

1		3.0	5.4	4.4	3.4							2.0
2		3.0	4.4	4.9	3.4							2.0
3		3.8	4.2	5.4	3.6							2.0
4		5.6	4.1	5.8	3.8							2.1
5		6.5	4.7	6.8	3.6							2.3
6		6.6	5.2	7.5	3.5							2.4
7		7.4	9.3	8.0	3.4							2.6
8		6.9	10.9	8.7	3.3							2.9
9		6.0	11.1	9.5	3.3							3.2
10		5.2	10.4	10.0	3.4							3.8
11		5.3	10.5	9.0	3.4							2.8
12		6.5	11.0	7.8	3.3							2.6
13		7.0	12.0	6.6	3.3							2.6
14		7.0	12.2	5.6	3.3							2.7
15		6.8	12.9	5.3	3.6							2.8
16		6.0	12.6	5.3	3.8							2.9
17		5.6	12.3	5.1	3.9							2.9
18		4.9	12.1	4.9	3.8							2.9
19		4.4	11.9	4.9	3.8							2.8
20		4.0	12.4	4.6	3.4							2.8
21		4.3	12.4	4.3	3.1							3.0
22		4.4	12.2	4.1	3.0							3.4
23		4.8	12.7	3.9	2.9							3.8
24		6.6	12.4	3.9	2.8							4.4
25		7.2	10.9	3.7	2.9							4.4
26		7.6	9.3	3.6	2.9							4.3
27		6.9	7.8	3.5	2.8							4.0
28		5.8	6.3	3.5	2.8							3.6
29			5.3	3.5	2.8							3.5
30			4.9	3.4	2.7							3.5
31			4.6		2.7							3.4

DAILY RIVER STAGES.

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Mobile River system (Alabama River branch)—Coosa River, Wilsonville, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.0	5.3	2.5	5.3	4.0							9.3
2	2.8	4.5	2.5	6.2	3.8							6.2
3	2.6	3.8	2.5	6.0	3.7							6.1
4	2.6	3.5	2.6	5.7	3.6							6.0
5	2.5	3.3	2.6	5.2	3.4							6.0
6	2.5	3.2	2.6	7.3	3.2							6.0
7	2.5	3.1	2.5	8.3	3.1							3.9
8	2.4	3.1	2.5	8.5	3.0							3.9
9	2.4	3.1	2.5	8.3	3.0							3.9
10	2.4	3.0	2.4	7.5	2.8							3.9
11	2.5	3.0	2.4	6.4	2.8							3.9
12	2.6	2.8	2.4	5.0	2.9							3.8
13	2.8	2.8	2.4	4.2	2.9							3.9
14	2.8	2.7	2.4	4.0	2.6							3.6
15	3.1	2.7	2.4	3.8	2.6							3.4
16	3.6	2.6	2.4	3.6	2.5							3.3
17	3.8	2.6	2.6	3.5	2.5							3.3
18	3.7	2.6	3.2	3.4	2.5							3.3
19	3.7	2.6	4.0	3.4	2.4							3.4
20	3.7	2.7	4.5	3.9	2.4							4.8
21	4.2	2.6	4.0	4.5	2.4							6.7
22	4.5	2.6	3.6	4.8	2.4							7.8
23	5.0	2.6	3.2	4.8	2.3							6.8
24	5.2	2.6	3.1	5.0	2.3							4.8
25	5.1	2.5	2.9	5.6	2.3							4.0
26	6.7	2.5	2.8	6.2	2.3							3.9
27	7.4	2.5	2.7	6.0	2.3							3.9
28	8.2	2.5	2.7	5.5	2.3							3.8
29	8.1		2.7	5.0	2.3							3.8
30	7.6		3.1	4.2	2.3							3.9
31	6.5		4.5		2.3							3.6

1899.

1	3.5	5.0	10.4									
2	3.5	5.9	10.3									
3	3.5	6.7	10.1									
4	3.6	6.9	9.9									
5	3.6	7.2	9.8									
6	3.6	9.8	7.9									
7	3.8	11.9	7.5									
8	4.2	12.2	6.7									
9	4.6	11.9	6.4									
10	5.4	11.6	6.0									
11	5.6	11.2	5.6									
12	5.2	10.6	5.1									
13	4.9	10.4	5.2									
14	4.9	9.7	7.4									
15	4.7	8.7	7.7									
16	4.5	6.5	12.6									
17	4.5	6.1	14.9									
18	4.5	6.4	14.5									
19	4.4	6.8	13.7									
20	4.3	6.9	13.4									
21	4.2	6.8	13.3									
22	4.2	6.6	13.7									
23	4.2	6.7	13.5									
24	4.0	6.8	13.3									
25	4.2	6.4	12.8									
26	4.2	6.1	12.1									
27	4.0	11.3	11.6									
28	3.9	10.4	10.9									
29	3.9		10.1									
30	3.9											
31	4.0											

DAILY RIVER STAGES.

*Mobile River system (Alabama River branch)—Coosa River, Wetumpka, Ala.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.3	7.9	6.3	6.9	6.8	3.5	1.4	2.0	0.9	0.2	0.8	3.9
2	6.5	7.0	6.5	8.2	8.0	2.9	1.3	2.0	0.7	2.0	0.5	4.5
3	6.5	6.8	6.5	9.6	9.4	4.3	1.1	3.0	0.6	2.4	0.4	5.4
4	6.2	6.5	6.0	11.2	8.0	5.0	1.3	2.0	0.4	3.1	0.7	7.9
5	5.7	6.4	5.7	12.8	8.1	4.0	1.5	2.0	0.1	4.3	2.9	8.5
6	4.7	13.8	5.6	12.4	6.9	3.8	1.6	3.5	0.0	3.3	4.4	7.3
7	4.2	21.2	8.5	11.1	6.9	4.0	1.8	2.3	-0.1	2.2	4.1	5.9
8	4.6	24.0	12.4	10.0	6.3	3.5	2.8	2.1	-0.2	1.5	3.2	4.5
9	5.2	29.2	11.8	8.5	5.6	4.4	6.4	2.0	-0.3	1.0	2.6	4.0
10	4.9	30.2	9.7	7.3	4.7	5.7	7.5	1.6	-0.3	0.6	4.1	4.1
11	4.4	29.1	10.2	6.6	4.4	5.8	10.0	1.3	-0.3	0.4	3.1	4.0
12	4.2	26.7	13.8	6.2	3.8	5.4	11.7	1.0	-0.3	0.3	2.9	3.4
13	4.1	23.4	14.0	5.9	3.5	4.4	10.8	0.9	-0.4	0.1	9.5	3.2
14	4.1	21.1	12.9	5.6	3.1	3.1	7.9	0.8	-0.4	0.1	8.6	2.9
15	3.9	18.5	11.5	5.7	4.8	2.7	6.2	0.8	-0.5	0.0	6.0	3.3
16	3.9	15.7	10.3	5.4	4.1	2.8	5.9	0.6	-0.5	0.0	5.4	4.0
17	6.5	14.4	9.5	5.1	3.4	2.5	8.4	0.8	-0.5	0.0	7.6	4.0
18	8.2	13.2	9.8	4.9	3.2	2.2	8.7	1.0	-0.5	0.0	7.5	3.6
19	8.0	11.9	11.4	4.5	3.0	2.1	8.0	0.8	-0.5	0.0	6.5	3.6
20	7.4	10.4	14.1	4.4	2.5	2.9	6.2	0.6	-0.5	-0.1	5.1	3.7
21	7.0	9.2	14.7	4.2	2.2	3.0	6.4	0.6	-0.6	0.0	3.7	3.5
22	12.0	8.3	14.1	4.1	2.4	5.0	5.9	0.5	-0.5	0.0	2.9	3.1
23	21.5	7.6	12.8	4.0	2.3	4.4	5.7	0.3	4.8	0.0	2.4	2.8
24	22.5	7.2	11.9	3.9	2.3	3.5	5.3	0.4	4.4	0.3	2.0	2.6
25	21.5	6.9	12.0	3.8	3.0	2.9	4.1	1.3	2.0	0.5	1.9	2.5
26	19.8	6.6	10.8	3.8	2.8	3.0	3.4	1.2	1.0	0.4	1.8	2.3
27	18.2	6.4	9.6	3.9	2.6	2.4	3.3	1.4	0.5	0.3	1.7	2.1
28	16.3	6.1	8.8	5.2	2.4	2.1	3.3	1.2	0.1	0.4	1.6	2.0
29	13.9	6.2	8.2	5.3	5.9	1.7	3.0	0.9	0.0	0.2	2.0	1.9
30	11.3	.....	7.7	5.5	5.5	1.6	2.7	.....	0.0	0.2	3.0	1.9
31	9.2	.....	7.3	.....	4.0	.....	2.3	1.0	.....	0.5	.....	1.8

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.7	4.4	13.4	10.4	8.7	3.0	1.7	3.6	2.0	-0.3	0.1	0.4
2	1.7	5.4	10.9	13.0	10.0	3.0	1.8	2.9	1.6	-0.4	0.2	0.2
3	1.7	7.5	8.9	13.8	9.0	2.9	1.8	2.2	1.5	-0.4	0.1	0.4
4	1.9	9.1	8.2	14.2	7.9	2.9	2.8	2.0	1.1	-0.4	0.1	0.8
5	2.0	12.4	8.9	15.0	7.6	2.9	2.8	1.6	1.0	-0.5	0.1	1.2
6	2.1	14.0	17.8	17.0	7.0	3.1	3.5	1.6	1.4	-0.5	0.2	1.9
7	2.0	15.4	28.8	18.2	6.3	3.4	3.2	1.7	1.4	-0.5	0.1	2.4
8	1.9	16.9	33.2	19.2	5.9	3.7	2.6	2.7	1.0	-0.5	0.2	3.9
9	1.9	15.9	34.8	21.4	5.5	3.4	3.2	2.2	0.7	-0.5	0.8	4.4
10	1.9	13.1	33.0	24.2	5.3	3.0	3.6	1.8	0.6	-0.6	0.8	4.1
11	2.1	11.5	30.4	24.4	5.0	2.7	3.6	2.0	0.5	-0.6	0.6	3.9
12	2.1	19.0	28.5	22.2	4.9	2.5	4.0	3.3	0.4	-0.5	0.6	3.4
13	1.9	21.0	30.8	18.5	5.0	2.4	4.6	3.4	0.4	-0.6	0.4	2.9
14	1.8	23.4	36.4	14.9	5.3	2.5	4.5	3.4	0.8	-0.5	0.1	5.0
15	1.9	22.9	38.3	12.8	6.0	2.5	3.5	3.4	0.5	-0.5	0.1	4.5
16	1.9	19.5	39.0	12.9	6.6	2.5	3.0	2.7	0.6	-0.5	0.1	4.1
17	4.1	16.6	37.8	12.5	6.9	2.8	2.6	2.5	0.1	-0.5	0.1	4.0
18	7.4	13.8	35.9	11.2	6.9	3.1	2.1	2.2	0.1	1.1	0.0	4.5
19	8.7	11.5	33.7	10.8	6.8	2.6	2.1	3.5	0.4	0.9	0.0	5.0
20	9.0	10.0	32.4	10.2	6.0	2.5	3.0	4.5	0.1	0.6	0.0	4.5
21	14.4	9.1	32.2	9.3	5.3	2.8	8.6	7.7	0.1	0.2	0.0	3.7
22	15.4	9.1	31.0	8.5	4.6	3.1	9.3	8.0	0.1	0.0	0.0	3.4
23	14.4	9.6	32.0	8.0	4.4	2.5	10.6	7.4	0.0	0.0	-0.1	4.1
24	13.2	12.6	35.5	7.6	4.1	2.2	12.0	5.0	0.0	-0.1	0.1	6.0
25	12.0	15.4	37.4	7.3	4.0	2.0	10.6	3.7	-0.1	0.0	0.0	7.5
26	10.0	18.0	35.3	7.0	3.8	2.5	8.0	3.6	-0.1	0.1	0.0	8.0
27	8.0	18.5	30.6	6.8	3.8	2.4	6.2	3.0	-0.1	0.4	0.1	7.6
28	6.6	16.1	23.4	6.6	3.5	2.0	4.8	2.7	-0.1	0.4	0.1	6.9
29	5.7	17.3	6.3	3.4	1.7	3.7	2.4	-0.2	0.2	0.3	5.8
30	5.1	12.5	7.0	3.3	1.8	3.5	2.0	-0.3	0.1	0.5	5.0
31	4.6	11.0	3.2	4.2	1.7	0.0	4.7

DAILY RIVER STAGES.

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Mobile River system (Alabama River Branch)—Coosa River, Wetumpka, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.4	12.5	2.7	9.7	7.7	1.1	2.0	7.2	7.0	2.7	4.9	9.3
2	3.9	9.5	2.5	11.6	7.0	1.1	1.2	7.4	6.0	2.5	4.5	8.8
3	3.4	7.5	2.7	12.6	6.2	1.1	1.0	7.3	4.6	2.1	4.4	9.7
4	3.0	6.4	3.0	11.5	5.6	1.0	0.7	7.6	3.6	5.6	4.1	11.7
5	2.7	5.6	3.5	17.0	5.1	1.0	0.6	11.0	4.0	15.6	4.1	11.5
6	2.6	5.3	3.7	20.6	4.6	0.9	0.6	10.6	14.5	21.4	4.1	10.0
7	2.5	4.9	3.5	22.3	4.2	0.9	0.6	10.2	17.2	26.9	4.9	9.2
8	2.4	4.5	3.1	22.0	4.0	0.7	1.5	12.6	19.0	27.2	5.2	8.9
9	2.4	4.3	3.0	20.6	3.6	0.4	2.9	12.0	19.6	31.2	5.1	8.9
10	2.3	4.1	2.9	18.7	3.4	0.3	4.1	10.7	19.5	30.3	5.8	9.6
11	2.4	4.0	2.6	16.2	3.1	0.3	3.4	14.6	18.3	27.5	9.0	9.6
12	2.8	3.9	2.5	12.7	3.0	0.2	2.9	21.7	15.2	24.7	8.1	9.1
13	3.9	3.7	2.3	9.8	2.9	0.4	3.1	17.6	10.6	21.7	6.7	8.5
14	4.0	3.5	2.5	8.2	2.7	0.6	3.4	15.0	8.4	16.4	8.0	7.9
15	4.0	3.4	3.0	7.4	2.6	0.5	5.0	12.7	7.2	10.5	9.0	7.1
16	4.6	3.1	3.2	6.7	2.5	0.9	6.1	10.0	5.9	7.8	8.5	6.5
17	5.8	3.0	3.1	6.4	2.4	0.9	5.6	7.8	4.9	6.6	8.5	6.2
18	6.0	3.0	3.6	6.0	2.2	1.5	5.1	6.1	4.1	7.4	9.0	6.0
19	6.0	3.3	5.0	5.6	2.1	1.9	6.0	5.6	3.7	8.2	13.4	6.1
20	6.0	3.5	7.0	5.7	2.0	1.8	5.5	6.0	3.5	9.5	14.0	10.7
21	7.0	3.5	7.6	7.6	1.9	1.6	3.7	5.0	3.1	11.0	12.4	12.0
22	7.6	3.1	6.5	9.3	1.6	1.9	2.6	5.0	3.0	11.8	11.8	12.0
23	8.8	3.0	5.3	9.0	1.6	2.9	1.9	4.6	3.0	11.0	14.9	11.7
24	9.7	3.0	4.5	13.6	1.6	3.0	2.0	4.4	3.0	9.5	15.6	11.2
25	10.0	2.9	4.0	14.9	1.5	3.1	2.2	3.9	5.0	8.2	14.0	10.1
26	10.7	2.7	3.6	14.3	1.5	2.8	3.7	4.8	7.0	7.2	12.2	9.1
27	14.5	2.7	3.3	13.5	1.2	2.4	3.1	9.0	5.6	6.8	11.0	8.2
28	16.0	2.8	3.1	12.5	1.2	2.0	4.1	7.8	4.7	6.1	9.7	7.7
29	17.3	-----	3.0	10.7	1.6	2.6	5.6	7.4	4.0	5.7	9.6	7.2
30	17.0	-----	4.6	9.0	1.6	2.7	6.0	6.1	3.2	5.5	10.0	6.8
31	15.4	-----	7.6	-----	1.4	-----	6.5	7.0	-----	5.1	-----	6.6

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.0	15.5	36.0	23.4	11.0	4.5	3.5	9.7	5.0	0.4	1.0	4.7
2	7.0	16.5	35.1	24.0	9.7	5.0	3.5	8.0	4.2	0.4	0.9	4.2
3	6.9	23.0	32.7	22.5	9.2	5.0	3.0	7.0	3.6	0.4	0.9	3.9
4	6.5	24.8	29.6	20.5	8.6	5.0	2.6	6.1	4.2	0.5	0.9	3.5
5	6.5	23.9	27.4	20.0	8.2	4.6	2.4	5.4	4.4	0.6	0.8	3.1
6	7.0	23.5	26.1	19.0	7.8	4.2	2.0	4.7	3.4	0.9	0.8	2.7
7	8.5	28.8	22.2	19.0	7.5	3.9	2.1	4.4	2.5	1.0	0.7	2.5
8	10.2	32.0	18.6	24.6	7.2	3.6	2.1	3.6	2.0	1.0	0.6	2.5
9	10.6	33.4	16.5	26.5	8.0	3.3	2.3	3.1	1.8	1.0	0.6	2.1
10	10.7	33.1	15.0	26.7	8.1	3.4	2.5	2.7	1.7	0.9	0.5	2.0
11	17.2	31.5	13.5	25.5	7.4	3.1	2.5	2.5	1.5	1.0	0.5	2.0
12	19.1	29.8	12.5	23.5	7.0	3.1	2.5	2.4	1.4	1.5	0.6	13.8
13	18.5	27.8	12.0	20.6	6.7	3.3	2.3	2.6	1.2	1.4	0.6	17.2
14	16.5	25.7	17.6	17.4	6.7	3.3	2.0	2.6	1.2	1.2	0.6	17.4
15	14.5	23.7	18.6	14.5	6.5	3.9	1.9	2.4	3.1	1.5	0.6	15.6
16	13.0	21.0	22.7	13.0	6.1	4.1	1.6	2.9	3.0	1.2	0.6	12.0
17	14.0	19.2	30.9	12.5	5.9	5.1	1.5	5.1	2.0	1.0	1.0	9.6
18	14.1	18.1	33.1	11.7	5.6	5.0	1.5	4.2	1.5	0.9	0.9	7.6
19	13.0	17.7	33.7	11.1	5.5	4.2	1.5	3.0	1.1	0.8	0.9	6.2
20	11.7	17.8	33.6	10.8	5.1	3.5	1.7	2.9	1.0	1.0	0.9	5.6
21	10.7	17.5	33.4	10.4	5.1	3.0	2.1	3.1	0.9	1.2	0.9	5.6
22	10.0	17.0	32.7	10.0	5.1	2.7	6.7	2.7	0.8	1.5	1.0	5.2
23	9.3	16.3	32.0	10.2	5.0	2.2	11.0	2.5	0.5	1.5	1.5	5.2
24	9.0	16.3	32.6	11.7	5.4	2.1	15.8	3.6	0.5	1.0	1.5	10.2
25	9.0	16.6	32.0	13.5	6.1	2.5	16.6	2.7	0.5	1.0	1.4	13.0
26	9.1	14.5	30.4	17.4	5.9	2.9	11.0	2.1	0.5	1.0	2.6	13.6
27	9.3	37.1	29.0	18.2	5.1	3.0	10.4	3.0	0.4	1.0	4.6	13.5
28	9.2	36.0	27.8	17.6	4.9	3.2	11.4	4.0	0.5	0.9	6.0	12.3
29	9.0	-----	26.5	15.9	4.6	3.0	11.7	3.2	0.4	1.0	6.0	10.5
30	9.0	-----	23.6	13.0	4.6	3.0	10.6	2.5	0.4	1.2	5.4	8.8
31	9.4	-----	19.7	-----	4.6	-----	11.2	3.2	-----	1.1	-----	7.6

DAILY RIVER STAGES.

*Mobile River system (Alabama River branch)—Etowah River, Canton, Ga.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.6	1.8	0.6	1.0	0.2	0.4	0.0	0.6	-0.3	0.0	0.0	1.0
2	0.6	1.8	0.5	2.0	0.2	0.8	0.0	1.6	-0.3	-0.2	0.1	1.0
3	0.6	1.8	0.5	1.0	0.2	1.6	0.0	0.8	-0.3	-0.3	0.1	0.6
4	0.6	1.8	0.5	1.0	0.2	1.0	0.0	0.8	-0.3	-0.3	0.0	0.3
5	0.6	1.8	0.5	1.0	0.6	1.0	0.0	0.7	-0.3	-0.4	2.8	0.3
6	0.6	2.0	0.5	1.0	0.6	0.8	0.0	0.6	-0.3	-0.4	0.8	0.2
7	0.5	3.0	0.8	1.0	0.6	0.6	0.6	0.5	-0.4	-0.5	0.6	0.1
8	0.7	3.0	0.8	0.8	0.6	0.6	3.0	0.4	-0.5	-0.5	0.6	0.1
9	0.7	3.5	0.8	0.6	0.5	0.6	7.0	0.3	-0.6	-0.5	0.4	0.1
10	0.7	3.0	0.8	0.6	0.4	0.4	3.0	0.2	-0.6	-0.3	0.4	0.1
11	0.7	2.0	0.8	0.6	0.4	0.4	1.4	0.1	-0.6	-0.3	0.4	0.1
12	0.7	1.8	0.8	0.4	0.2	0.4	1.0	0.0	-0.6	-0.4	0.9	0.0
13	0.7	1.8	0.8	0.4	0.2	0.4	2.0	0.0	-0.7	-0.2	3.6	0.0
14	0.7	1.8	0.8	0.4	0.2	0.4	1.0	0.0	-0.7	-0.3	1.0	0.0
15	0.7	1.0	0.7	0.2	0.2	0.4	1.0	0.0	-0.6	-0.4	0.7	0.2
16	0.7	1.0	0.8	0.2	0.2	0.4	2.0	0.0	-0.6	-0.4	0.7	0.4
17	1.0	1.0	0.8	0.2	0.2	0.4	1.0	0.0	-0.6	-0.4	0.4	0.2
18	0.8	1.0	0.7	0.2	0.2	0.4	3.0	0.0	-0.8	-0.4	0.2	0.0
19	0.8	1.0	1.0	0.2	0.2	0.4	1.0	0.0	-0.8	-0.4	0.0	0.0
20	0.8	1.0	1.0	0.2	0.2	3.0	1.0	0.0	-0.8	-0.5	0.0	0.0
21	0.8	1.0	1.0	0.2	0.2	1.0	1.0	0.0	-0.8	-0.5	0.0	0.0
22	1.0	0.8	0.8	0.2	0.6	1.0	1.0	0.0	-0.6	-0.5	0.0	0.0
23	3.8	0.8	0.8	0.2	0.6	0.8	0.8	0.0	-0.1	-0.5	0.0	0.0
24	5.8	0.8	0.8	0.2	0.4	0.8	0.8	0.0	-0.3	0.0	0.0	0.0
25	3.0	0.8	0.6	0.2	0.4	0.6	0.8	-0.1	-0.4	-0.1	0.0	0.0
26	2.0	0.6	0.6	0.2	0.2	0.4	0.8	-0.1	-0.6	-0.1	0.0	0.0
27	2.0	0.6	0.6	0.2	0.2	0.2	0.8	-0.1	-0.6	-0.1	0.0	0.0
28	2.0	0.6	0.6	0.2	0.2	0.0	0.7	-0.2	-0.6	0.0	0.0	-0.1
29	1.8	0.6	0.6	0.2	0.2	0.0	0.6	-0.3	-0.6	1.8	1.0	-0.1
30	1.8	-----	0.6	0.2	0.2	0.0	0.5	-0.3	0.7	1.0	1.4	-0.1
31	1.8	-----	1.0	-----	0.2	-----	0.4	-0.3	-----	0.0	-----	-0.1

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-0.1	0.6	0.8	1.6	2.0	0.1	0.0	0.2	0.4	-0.7	0.2	0.6
2	-0.1	2.2	0.6	2.0	1.8	0.1	0.0	0.0	0.0	-0.7	0.8	0.6
3	-0.1	1.0	0.6	2.0	1.8	0.7	0.0	0.0	-0.2	-0.7	0.8	0.6
4	-0.1	0.8	0.6	2.6	1.6	0.5	0.0	0.0	-0.4	-0.5	0.6	1.6
5	-0.1	0.8	0.6	11.2	0.7	0.5	0.0	0.0	-0.4	-0.4	0.5	2.0
6	-0.1	0.9	3.6	5.0	0.7	0.5	0.0	0.6	-0.5	-0.3	0.5	1.0
7	-0.1	0.8	4.0	3.0	0.7	0.4	0.4	0.8	-0.5	-0.3	0.3	0.9
8	-0.1	0.8	2.0	2.0	0.6	0.4	0.4	0.6	-0.5	-0.4	0.3	0.8
9	-0.1	0.8	1.8	3.0	0.6	0.3	0.4	0.6	-0.6	-0.4	0.3	0.8
10	-0.1	0.8	1.8	2.6	0.5	0.3	0.3	0.6	-0.6	-0.4	0.2	0.8
11	-0.1	0.8	1.8	2.4	0.5	0.2	0.3	0.6	-0.6	1.2	0.2	0.8
12	-0.1	0.8	2.8	2.2	0.5	0.1	0.2	0.4	-0.6	1.0	0.2	0.6
13	-0.1	1.8	7.2	2.0	0.5	0.1	0.2	0.4	-0.6	0.8	0.2	0.8
14	2.2	1.0	6.8	2.0	0.4	0.1	0.2	0.2	-0.6	0.8	0.2	0.9
15	1.8	0.8	4.0	2.0	0.4	0.0	0.1	0.2	-0.6	0.6	0.2	0.9
16	0.9	0.8	3.6	1.8	0.4	3.0	0.1	0.2	-0.6	0.6	0.2	0.8
17	0.5	0.7	2.6	1.8	0.4	1.0	0.9	1.0	-0.6	0.6	0.2	0.7
18	2.0	0.6	2.4	1.6	0.4	0.8	1.0	1.0	-0.6	0.4	0.2	0.7
19	1.6	0.6	2.0	1.4	0.4	0.6	2.0	0.8	-0.6	0.4	0.1	0.8
20	3.6	0.6	2.8	1.4	0.3	0.4	7.1	0.6	-0.6	0.6	0.1	0.8
21	3.0	0.8	2.0	1.2	0.3	0.4	2.5	0.4	-0.6	0.4	0.2	0.9
22	2.0	0.8	1.8	1.2	0.3	0.3	1.0	0.2	-0.6	0.4	0.2	1.0
23	1.0	1.6	1.8	1.0	0.2	0.3	0.8	0.0	-0.6	0.4	0.2	0.9
24	0.8	1.0	1.8	1.0	0.1	0.3	0.8	0.0	-0.5	0.4	0.2	0.8
25	0.7	1.0	1.6	1.0	0.1	0.3	0.8	0.0	-0.5	0.4	0.8	0.8
26	0.7	0.8	1.6	0.8	0.1	0.2	0.6	-0.1	-0.8	0.4	0.6	0.8
27	0.7	0.8	1.4	0.8	0.1	0.2	0.6	-0.2	-0.6	0.4	0.6	0.7
28	0.6	0.8	1.4	0.8	0.1	0.1	0.5	-0.3	-0.5	0.3	0.6	0.6
29	0.6	-----	1.2	1.0	0.1	0.1	0.5	-0.4	-0.6	0.3	0.8	0.6
30	0.6	-----	1.2	1.0	0.1	0.1	0.4	-0.4	-0.6	0.3	0.6	0.6
31	-----	-----	1.2	-----	0.1	-----	0.2	0.6	-0.6	0.2	-----	0.5

DAILY RIVER STAGES.

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Mobile River system (Alabama River branch)—Etowah River, Canton, Ga.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.5	0.8	0.3	1.6	0.6	0.6	0.3	0.4	0.4	0.4	0.8	1.6
2	0.5	0.8	0.3	1.4	0.6	0.4	0.2	0.4	11.5	0.4	0.8	1.6
3	0.3	0.8	0.6	1.2	0.6	0.3	0.2	2.0	9.0	0.3	0.7	1.6
4	0.3	0.7	0.6	1.0	0.5	0.2	0.2	3.4	4.0	9.0	0.7	2.6
5	0.2	0.6	0.6	7.0	0.5	0.2	0.4	3.0	2.0	13.5	0.7	2.4
6	0.2	0.6	0.4	3.6	0.4	0.2	0.4	2.0	3.0	4.0	0.8	2.4
7	0.3	0.6	0.4	3.0	0.4	0.2	0.8	3.0	2.4	2.4	0.7	2.2
8	0.3	0.6	0.3	1.8	0.4	0.2	1.8	3.0	1.6	2.0	0.6	2.2
9	0.3	0.5	0.2	1.0	0.4	0.2	0.8	2.0	1.4	1.6	0.6	2.1
10	0.4	0.5	0.2	0.8	0.4	0.1	0.8	4.0	1.4	1.4	0.7	2.0
11	0.6	0.4	0.2	0.8	0.3	0.1	0.9	6.0	1.6	1.2	0.8	2.0
12	0.8	0.4	0.2	0.6	0.3	0.1	2.9	4.0	1.4	1.2	0.7	1.8
13	0.8	0.4	0.2	0.6	0.3	0.1	2.0	3.5	1.4	1.1	0.7	1.8
14	0.6	0.4	0.1	0.6	0.3	0.7	1.8	2.0	1.0	1.1	0.6	1.8
15	0.6	0.4	0.4	0.5	0.3	0.6	1.6	1.8	1.0	1.0	0.8	1.7
16	0.8	0.4	4.0	0.5	0.3	0.6	1.4	1.6	1.0	1.0	0.8	1.7
17	0.8	0.4	3.0	0.4	0.3	0.5	1.2	1.4	0.8	1.0	0.8	1.7
18	0.8	0.3	0.8	0.4	0.2	0.5	0.6	1.2	0.8	4.2	0.9	1.6
19	0.9	0.3	0.6	0.8	0.2	0.4	0.2	1.0	0.6	3.0	1.0	1.6
20	0.9	0.4	0.6	0.6	0.2	0.4	0.2	0.8	0.6	2.0	1.2	1.6
21	0.8	0.5	0.4	0.7	0.2	0.4	0.2	0.6	0.4	2.0	1.6	1.5
22	0.8	0.5	0.4	0.8	0.2	0.4	0.3	0.4	0.4	2.0	2.0	1.4
23	0.9	0.4	0.4	0.8	0.8	0.3	0.3	0.4	0.4	1.8	1.8	1.4
24	0.9	0.4	0.3	2.0	0.8	0.3	7.3	0.4	0.8	1.6	1.6	1.4
25	2.0	0.4	0.2	0.9	0.6	0.3	2.0	0.4	0.6	1.4	1.6	1.4
26	5.6	0.3	0.2	0.8	0.6	0.3	2.0	0.4	0.6	1.2	1.6	1.4
27	4.0	0.3	0.1	0.8	0.5	0.3	1.8	3.6	0.4	1.0	1.5	1.4
28	2.6	0.3	0.2	0.8	0.4	0.3	1.8	2.4	0.4	1.0	1.5	1.4
29	1.3	-----	5.0	0.6	0.4	0.3	1.8	1.8	0.4	0.9	2.0	1.2
30	1.0	-----	4.0	0.6	0.4	0.3	1.8	1.0	0.4	0.8	1.8	1.2
31	0.9	-----	3.0	-----	0.8	-----	1.8	0.6	-----	0.8	-----	1.8

1899.

1	1.8	1.6	3.0	2.4	1.6	-----	-----	-----	-----	-----	-0.1	0.1
2	1.8	1.6	2.8	2.2	1.5	-----	-----	-----	-----	-----	-0.1	0.4
3	1.8	1.8	2.8	2.0	1.4	-----	-----	-----	-----	-----	-0.1	0.4
4	1.8	2.8	2.6	3.8	1.4	-----	-----	-----	-----	-----	-0.1	0.4
5	1.6	3.0	2.4	3.0	1.4	-----	-----	-----	-----	-----	-0.1	0.2
6	1.8	6.2	2.0	2.8	1.4	-----	-----	-----	-----	-----	-0.1	0.2
7	1.6	8.0	1.8	2.8	1.4	-----	-----	-----	-----	-----	-0.1	0.2
8	1.4	4.0	1.8	4.0	1.4	-----	-----	-----	-----	-----	-0.1	0.2
9	1.4	3.2	1.6	3.0	1.6	-----	-----	-----	-----	-----	-0.1	0.2
10	1.4	3.0	1.5	2.8	1.6	-----	-----	-----	-----	-----	-0.1	0.2
11	1.4	2.0	1.5	2.0	1.4	-----	-----	-----	-----	-----	-0.1	0.3
12	1.8	Frozen.	1.4	1.8	1.4	-----	-----	-----	-----	-----	-0.1	2.8
13	1.8	-----	1.4	1.8	1.4	-----	-----	-----	-----	-----	-0.1	0.8
14	2.8	-----	3.6	1.8	1.8	-----	-----	-----	-----	-----	-0.1	0.3
15	2.6	3.0	7.0	1.8	1.8	-----	-----	-----	-----	-----	0.0	0.2
16	2.4	2.0	18.2	1.6	1.8	-----	-----	-----	-----	-----	0.0	0.2
17	2.4	2.0	18.0	1.6	1.6	-----	-----	-----	-----	-----	0.1	0.1
18	2.3	2.0	4.0	1.6	1.6	-----	-----	-----	-----	-----	0.0	0.1
19	2.3	1.8	3.0	1.4	1.6	-----	-----	-----	-----	-----	0.0	0.1
20	2.2	1.8	2.0	1.4	1.4	-----	-----	-----	-----	-----	0.0	0.1
21	2.0	1.8	2.0	1.4	1.4	-----	-----	-----	-----	-----	0.0	0.1
22	1.8	1.8	2.0	1.4	1.4	-----	-----	-----	-----	-----	0.0	0.1
23	1.8	1.8	1.8	1.4	1.4	-----	-----	-----	-----	-----	0.9	0.8
24	2.0	1.6	1.8	1.8	1.4	-----	-----	-----	-----	-----	0.7	3.0
25	2.8	1.4	1.8	4.8	1.4	-----	-----	-----	-----	-----	0.7	2.0
26	2.0	1.8	2.8	3.0	1.2	-----	-----	-----	-----	-----	1.1	1.9
27	1.8	10.0	2.0	2.8	1.2	-----	-----	-----	-----	-----	0.7	1.8
28	1.8	5.0	1.8	2.0	1.2	-----	-----	-----	-----	-----	0.5	0.6
29	1.6	-----	2.8	1.8	1.2	-----	-----	-----	-----	-----	0.1	0.6
30	1.6	-----	2.0	1.6	1.2	-----	-----	-----	-----	-----	0.1	0.6
31	1.6	-----	2.6	-----	1.0	-----	-----	-----	-----	-----	-----	0.6

DAILY RIVER STAGES.

*Mobile River system (Alabama River branch)—Oostenaula River, Resaca, Ga.***1896.¹**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.5	3.9	3.7	4.8	-----	-----	-----	2.1	1.2	6.5	1.5	9.2
2	4.6	3.9	3.7	11.8	-----	-----	-----	2.3	1.2	3.7	1.4	6.7
3	4.2	4.6	3.7	11.6	-----	-----	-----	2.6	1.2	2.0	1.4	4.6
4	3.8	4.8	3.6	11.7	-----	-----	-----	2.4	1.2	1.6	1.4	3.9
5	3.4	4.5	3.5	6.6	-----	-----	-----	2.2	1.2	1.5	1.9	3.5
6	3.0	10.7	3.4	5.4	-----	-----	-----	2.0	1.2	1.4	3.2	3.2
7	2.9	16.7	3.8	5.0	-----	-----	-----	1.9	1.3	1.3	2.1	3.0
8	3.3	15.5	4.2	4.9	-----	-----	-----	1.8	1.1	1.3	2.0	2.9
9	4.0	15.9	3.9	4.8	-----	-----	-----	1.8	1.1	1.3	2.1	3.0
10	4.0	14.1	3.6	4.3	-----	-----	-----	1.8	1.0	1.2	1.8	3.5
11	3.5	9.3	3.4	4.2	-----	-----	-----	1.6	1.0	1.2	1.7	3.3
12	3.4	6.9	4.5	4.0	-----	-----	-----	1.6	1.0	1.2	3.0	3.1
13	3.3	5.0	4.9	3.8	-----	-----	-----	1.7	1.5	1.6	13.6	2.9
14	3.1	9.1	4.0	3.7	-----	-----	-----	1.6	1.2	1.6	11.4	2.8
15	3.0	9.7	3.7	3.6	-----	-----	-----	1.6	1.1	1.5	11.1	4.2
16	2.9	7.8	3.6	3.6	-----	-----	-----	1.7	1.0	1.4	4.2	3.9
17	3.7	6.4	6.5	3.6	-----	-----	-----	1.7	1.0	1.4	3.3	3.3
18	4.0	5.7	8.4	3.5	-----	-----	-----	1.7	1.0	1.3	3.0	3.0
19	3.8	5.3	6.6	3.5	-----	-----	-----	1.5	1.0	1.2	2.7	3.0
20	3.4	5.0	7.8	3.4	-----	-----	-----	1.4	0.9	1.2	2.6	2.9
21	3.2	4.7	7.1	3.3	-----	-----	-----	1.3	0.8	1.2	2.5	2.8
22	3.4	4.3	5.8	3.2	-----	-----	-----	1.2	2.0	1.2	2.4	2.6
23	5.7	4.1	5.2	3.2	-----	-----	-----	1.2	1.6	1.2	2.4	2.6
24	10.8	4.0	4.9	4.2	-----	-----	-----	1.5	1.2	1.4	2.4	2.6
25	11.5	4.0	5.3	3.7	-----	-----	-----	3.2	1.2	1.9	2.2	2.4
26	10.0	3.9	5.0	3.3	-----	-----	-----	2.8	1.1	1.6	2.2	2.3
27	6.2	3.8	4.7	3.1	-----	-----	-----	2.0	1.1	1.5	2.1	2.2
28	5.2	3.7	4.4	3.4	-----	-----	-----	1.7	1.7	1.4	2.2	2.2
29	4.7	3.7	4.2	3.4	-----	-----	-----	1.5	8.4	1.6	3.8	2.2
30	4.3	-----	4.0	3.3	-----	-----	-----	1.4	-----	1.9	8.7	2.2
31	4.0	-----	4.6	3.1	-----	-----	-----	1.3	-----	1.5	-----	2.2

1897.²

1	2.2	3.8	4.6	7.3	5.4	4.2	2.6	2.4	2.3	1.0	1.3	1.8
2	2.2	13.9	4.4	11.4	5.0	3.5	2.2	2.3	1.9	1.0	2.0	1.6
3	2.2	14.0	4.2	12.4	4.6	3.5	2.2	3.0	1.9	1.0	2.3	2.0
4	2.2	13.2	4.3	12.5	4.6	3.6	2.2	2.4	1.8	1.0	2.1	4.6
5	3.0	8.7	5.9	18.5	4.2	3.4	2.2	2.5	1.8	1.0	1.9	5.1
6	3.0	6.2	10.5	20.3	4.1	3.2	2.6	3.2	1.6	1.0	1.7	5.7
7	2.7	7.3	18.0	19.6	4.0	3.0	6.2	4.0	1.5	1.1	1.6	4.3
8	2.5	7.6	18.8	16.3	4.0	2.9	3.6	3.4	1.4	1.0	1.5	3.1
9	2.4	7.0	19.0	10.1	3.8	3.0	2.8	2.8	1.4	1.0	1.5	2.6
10	2.3	6.0	16.2	10.4	3.8	3.2	2.8	2.5	1.4	1.0	1.5	2.3
11	2.2	5.8	10.7	8.6	4.0	2.9	3.2	3.2	1.4	1.1	1.5	2.2
12	2.2	8.6	16.5	7.6	4.9	2.8	3.3	2.8	1.4	2.0	1.5	2.2
13	2.2	9.8	21.7	6.8	5.4	2.7	2.9	2.5	1.4	3.0	1.4	2.1
14	5.4	7.7	24.6	6.4	8.4	2.6	2.6	2.2	1.3	1.8	1.4	4.1
15	7.5	6.4	26.0	6.8	8.8	2.6	2.3	2.1	1.3	1.6	1.4	5.3
16	5.1	5.7	25.3	8.2	5.7	2.6	2.2	2.1	1.3	1.4	1.4	4.4
17	4.1	5.4	23.8	7.0	4.7	2.7	3.1	2.6	1.3	1.4	1.4	3.4
18	5.4	4.7	21.3	6.2	4.4	2.9	2.9	3.0	1.4	1.2	1.4	2.9
19	5.2	4.5	19.0	5.8	4.1	2.8	3.4	2.2	1.2	1.2	1.4	2.7
20	4.4	4.5	18.9	5.5	4.0	2.6	11.8	2.1	1.2	2.2	1.4	5.2
21	9.6	5.0	18.2	5.3	3.8	2.6	7.8	2.0	1.2	2.0	1.4	6.2
22	8.7	4.6	18.4	5.1	3.8	2.4	9.0	2.2	1.2	2.0	1.4	8.4
23	6.1	11.4	17.5	4.9	3.8	2.4	7.2	2.6	1.2	1.8	1.4	9.2
24	5.0	12.0	12.7	4.8	3.6	2.4	4.2	2.5	1.2	1.8	1.4	7.5
25	4.4	10.6	8.4	4.8	3.5	2.4	3.2	2.2	1.2	1.5	1.4	4.9
26	4.0	6.7	7.6	4.7	3.4	2.4	4.0	2.0	1.2	1.4	1.4	4.4
27	3.7	5.7	6.7	4.7	3.3	2.3	4.4	2.0	1.2	1.4	1.5	4.9
28	3.4	5.1	6.6	4.6	3.2	2.2	3.9	1.8	1.1	1.4	1.8	4.2
29	2.7	-----	6.0	4.4	3.2	3.5	3.2	1.8	1.2	1.4	1.7	3.7
30	3.1	-----	6.0	4.3	3.2	2.9	2.8	1.7	1.0	1.3	1.7	3.4
31	Frozen.	-----	6.0	-----	3.5	-----	2.6	1.8	-----	1.3	-----	3.2

¹U. S. Geological Survey records.²U. S. Geological Survey records, May to October, inclusive.

DAILY RIVER STAGES.

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*Mobile River system (Alabama River branch)—Oostenaula River, Resaca, Ga.—Continued.*1898.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.1	5.1	3.1	10.0	4.5	2.6	1.9	5.9	2.6	2.7	3.6	5.3
2	2.9	4.6	2.9	7.0	4.2	2.3	2.0	4.9	12.8	2.6	3.5	4.8
3	2.7	4.2	3.0	5.7	4.1	2.2	1.9	3.8	19.1	2.5	3.5	4.5
4	2.6	3.9	3.1	5.0	3.9	2.2	1.8	3.8	21.0	6.6	3.5	4.6
5	2.6	3.8	3.0	11.9	3.8	2.1	1.7	7.0	21.0	18.7	3.4	6.6
6	2.6	3.8	2.9	17.7	3.6	2.0	2.2	4.3	19.2	22.0	3.4	6.2
7	2.8	3.8	2.7	15.1	3.6	2.0	2.5	4.1	17.1	23.3	3.8	5.4
8	3.0	3.7	2.7	12.1	3.6	1.9	4.8	3.7	11.6	21.8	3.9	4.9
9	2.8	3.5	2.6	9.7	3.4	1.9	2.9	3.4	7.0	16.7	3.5	4.6
10	2.7	3.4	2.6	5.8	3.4	1.8	3.2	3.7	5.4	6.9	3.4	4.3
11	2.7	3.4	2.6	5.4	3.2	1.8	2.9	7.2	5.0	5.6	3.7	4.2
12	6.8	3.3	2.6	5.5	3.2	1.8	2.6	6.7	4.6	5.2	3.7	4.0
13	6.7	3.3	2.6	5.0	3.1	2.4	2.1	5.4	4.4	4.7	3.7	4.0
14	6.8	3.1	2.7	5.1	3.1	3.5	2.2	4.8	4.0	4.6	4.4	4.0
15	5.8	3.1	4.1	5.5	3.0	2.8	3.4	3.8	3.8	4.3	4.1	3.7
16	6.3	3.0	8.1	5.3	2.9	2.5	3.7	3.4	3.7	4.1	4.8	3.6
17	6.5	2.9	9.4	5.0	2.8	2.4	2.8	4.0	3.5	4.0	4.1	3.6
18	5.1	2.9	5.9	4.6	2.8	3.8	2.4	3.2	3.4	8.0	4.4	3.7
19	4.7	3.0	5.3	4.4	2.8	4.0	2.1	4.3	3.2	9.5	6.7	3.7
20	8.9	3.0	4.6	5.6	2.8	5.3	2.0	4.0	3.1	6.3	7.1	4.7
21	10.6	3.0	4.1	5.6	2.6	5.0	1.9	3.4	3.0	5.0	6.0	5.5
22	9.0	2.9	3.8	4.5	2.6	4.4	1.8	5.3	3.0	5.0	5.1	4.9
23	7.3	2.9	3.6	4.2	2.5	3.9	1.9	3.5	5.4	5.8	7.8	5.0
24	7.0	2.8	3.4	10.6	2.6	2.6	1.8	3.0	4.7	4.9	7.1	5.3
25	8.8	2.8	3.5	9.4	3.0	2.4	2.2	2.9	4.4	4.4	5.9	4.5
26	17.1	2.7	3.9	7.1	2.7	2.2	3.2	3.4	4.3	4.2	5.1	4.2
27	16.0	3.0	3.5	6.5	2.5	2.2	3.4	4.6	3.0	4.4	4.8	4.1
28	13.6	3.2	3.3	5.9	2.4	2.3	5.3	3.8	2.9	4.2	4.4	4.0
29	8.2	.....	6.0	5.3	2.3	2.1	5.2	2.8	2.8	4.0	4.6	3.8
30	6.0	.....	11.8	4.9	2.2	2.0	4.2	2.6	2.7	3.9	5.6	3.8
31	5.5	.....	12.5	.....	2.2	.....	5.2	2.6	.....	3.8	.....	3.8

1899.

1	5.1	11.0	16.2	13.4	.....	.....	.....	.....	.....	.....	1.8	2.3
2	5.0	8.8	9.6	10.3	.....	.....	.....	.....	.....	.....	1.7	2.5
3	4.5	7.9	8.0	8.4	.....	.....	.....	.....	.....	.....	1.7	2.6
4	4.2	16.0	7.4	8.1	.....	.....	.....	.....	.....	.....	1.7	2.3
5	4.1	19.9	9.3	10.2	.....	.....	.....	.....	.....	.....	1.7	2.2
6	4.5	21.9	10.4	9.0	.....	.....	.....	.....	.....	.....	1.7	2.1
7	7.5	25.5	9.4	8.9	.....	.....	.....	.....	.....	.....	1.6	2.0
8	9.3	26.5	7.5	14.3	.....	.....	.....	.....	.....	1.7	1.6	2.0
9	8.8	25.3	6.8	13.9	.....	.....	.....	.....	.....	.....	1.6	1.9
10	6.2	22.2	6.6	12.7	.....	.....	.....	.....	.....	.....	1.6	2.0
11	5.8	15.8	6.4	8.9	.....	.....	.....	.....	2.3	.....	1.6	2.1
12	6.0	8.2	6.1	7.8	.....	.....	.....	.....	.....	.....	1.7	5.1
13	5.8	7.0	6.0	7.4	.....	.....	.....	.....	.....	.....	1.7	8.0
14	5.3	6.3	8.0	7.0	.....	.....	.....	.....	.....	.....	1.7	6.4
15	5.5	6.7	16.7	6.8	.....	.....	.....	.....	.....	.....	1.6	4.0
16	5.1	6.7	22.0	6.5	.....	.....	.....	.....	.....	.....	1.9	3.6
17	6.1	12.1	28.4	6.2	.....	.....	.....	.....	.....	.....	2.0	3.3
18	6.2	11.4	27.3	6.0	.....	.....	.....	.....	.....	.....	1.8	2.8
19	5.6	10.2	26.5	6.1	.....	.....	.....	.....	.....	.....	1.8	2.7
20	5.1	9.5	26.2	6.0	.....	.....	.....	.....	.....	.....	1.8	3.5
21	4.8	8.1	27.3	5.8	.....	.....	.....	.....	.....	.....	1.7	4.4
22	4.7	8.2	25.2	5.6	.....	.....	.....	.....	.....	.....	1.7	3.6
23	4.5	8.6	21.1	5.4	.....	.....	.....	.....	.....	.....	2.3	3.3
24	4.5	7.7	17.0	6.4	.....	.....	.....	.....	.....	.....	2.8	8.1
25	5.5	6.9	11.0	8.6	.....	.....	.....	.....	.....	.....	2.3	8.1
26	5.3	6.4	9.0	8.7	.....	.....	.....	.....	.....	.....	2.7	6.0
27	4.8	17.5	8.6	7.0	.....	.....	.....	3.1	.....	.....	3.8	4.3
28	4.5	20.2	7.9	6.3	.....	.....	.....	.....	.....	.....	3.4	3.8
29	4.4	.....	11.6	5.8	.....	.....	.....	.....	.....	.....	2.8	3.7
30	4.2	.....	11.4	5.5	.....	.....	.....	2.5	.....	.....	2.5	3.5
31	6.1	.....	11.4	.....	.....	.....	.....	3.4	.....	.....	.....	3.0

¹U. S. Geological Survey Records, May to October, inclusive.

DAILY RIVER STAGES.

*Mobile River system (Alabama River Branch)—Oostenaula River, Rome, Ga.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.0	2.6	2.6	3.6	-----	-----	-----	0.8	-0.2	4.5	0.5	6.0
2	3.4	2.5	2.6	6.5	-----	-----	-----	1.3	-0.2	2.9	0.5	5.2
3	2.8	2.5	2.5	9.4	-----	-----	-----	1.2	0.0	1.3	0.5	3.4
4	2.6	3.0	2.5	7.2	-----	-----	-----	1.2	-0.1	0.8	0.6	2.7
5	1.8	2.9	2.4	5.9	-----	-----	-----	0.9	-0.2	0.7	2.1	2.5
6	1.6	5.6	2.2	3.7	-----	-----	-----	0.9	-0.3	0.5	3.6	2.3
7	1.6	13.0	2.2	2.3	-----	-----	-----	0.8	-0.4	0.4	2.5	2.1
8	1.6	13.0	2.4	2.3	-----	-----	-----	0.7	-0.4	0.3	1.8	2.0
9	1.8	14.0	2.4	2.3	-----	-----	-----	0.4	-0.5	0.0	1.2	1.9
10	2.7	13.2	2.1	2.3	-----	-----	-----	0.3	-0.5	0.0	1.1	1.8
11	2.6	10.0	2.3	2.3	-----	-----	-----	0.3	-0.5	0.0	1.0	2.0
12	2.0	6.0	3.2	2.3	-----	-----	-----	0.2	-0.6	0.0	1.8	1.7
13	1.8	4.9	3.2	2.1	-----	-----	-----	0.2	-0.7	0.0	5.9	1.7
14	1.8	5.8	3.0	2.1	-----	-----	-----	0.1	-0.7	0.0	8.4	1.7
15	1.7	7.0	2.4	2.0	-----	-----	-----	0.1	-0.8	0.2	6.4	2.1
16	1.7	6.0	2.4	1.9	-----	-----	-----	0.1	-0.8	0.3	5.0	2.7
17	2.9	5.0	3.1	1.8	-----	-----	-----	0.1	-0.3	0.1	2.4	2.2
18	3.4	4.0	4.3	1.8	-----	-----	-----	0.0	-0.3	0.0	1.7	1.8
19	3.0	3.7	5.0	1.8	-----	-----	-----	0.0	-0.3	0.0	1.6	1.7
20	2.6	3.4	5.0	1.7	-----	-----	-----	-0.2	-0.4	-0.1	1.6	1.7
21	2.3	3.2	5.0	1.6	-----	-----	-----	-0.4	-0.4	-0.1	1.6	1.7
22	2.4	3.0	4.0	1.6	-----	-----	-----	-0.5	-0.4	-0.2	1.5	1.6
23	4.8	2.6	3.5	1.6	-----	-----	-----	-0.6	-0.4	0.0	1.4	1.5
24	9.4	2.6	3.3	2.1	-----	-----	-----	0.2	-0.1	0.2	1.4	1.4
25	10.8	2.6	3.2	2.0	-----	-----	-----	0.9	-0.4	0.4	1.4	1.3
26	7.9	2.6	3.0	1.8	-----	-----	-----	1.2	0.2	0.6	1.3	1.3
27	5.8	2.5	3.0	1.7	-----	-----	-----	0.7	-0.2	0.4	1.2	1.3
28	4.0	2.5	2.9	1.6	-----	-----	-----	0.7	-0.1	0.1	1.1	1.2
29	3.4	2.7	2.8	1.6	-----	-----	-----	0.6	1.0	0.2	1.3	1.1
30	3.0	-----	2.8	1.6	-----	-----	-----	0.1	3.8	2.6	3.7	1.0
31	2.8	-----	3.2	-----	-----	-----	-----	-0.1	-----	1.1	-----	1.0

1897.

1	1.0	2.8	3.3	7.1	4.1	-----	-----	-----	-----	-----	0.5	1.1
2	1.0	9.7	3.2	7.5	4.0	-----	-----	-----	-----	-----	0.9	1.0
3	1.0	11.5	3.1	8.2	3.5	-----	-----	-----	-----	-----	1.0	1.2
4	1.0	9.6	3.3	9.4	3.3	-----	-----	-----	-----	-----	1.0	2.3
5	1.0	8.2	3.5	14.8	3.0	-----	-----	-----	-----	-----	1.0	3.2
6	1.0	5.2	7.6	18.9	3.0	-----	-----	-----	-----	-----	0.8	3.7
7	1.1	5.0	19.7	17.0	3.0	-----	-----	-----	-----	-----	0.8	3.2
8	1.1	4.3	18.9	14.7	2.8	-----	-----	-----	-----	-----	0.8	2.2
9	1.0	5.0	15.4	12.1	2.6	-----	-----	-----	-----	-----	0.8	1.9
10	1.0	4.4	13.5	9.6	2.6	-----	-----	-----	-----	-----	0.7	1.7
11	0.9	4.5	12.0	7.2	2.6	-----	-----	-----	-----	-----	0.7	1.5
12	0.9	7.4	11.5	6.2	3.0	-----	-----	-----	-----	-----	0.7	1.4
13	0.9	8.7	18.6	5.8	3.4	-----	-----	-----	-----	-----	0.7	1.3
14	2.8	7.2	21.3	5.0	4.0	-----	-----	-----	-----	-----	0.6	2.2
15	6.2	5.5	23.8	6.0	5.0	-----	-----	-----	-----	-----	0.6	4.0
16	5.0	4.5	23.4	7.4	4.0	-----	-----	-----	-----	-----	0.6	3.5
17	3.5	4.0	22.6	7.0	3.3	-----	-----	-----	-----	-----	0.6	2.5
18	3.9	3.7	21.4	5.0	2.8	-----	-----	-----	-----	-----	0.6	2.2
19	5.0	3.4	19.7	4.5	2.7	-----	-----	-----	-----	-----	0.6	1.8
20	3.5	3.0	18.9	4.0	2.6	-----	-----	-----	-----	-----	0.6	1.7
21	8.7	4.0	17.7	3.8	2.5	-----	-----	-----	-----	-----	0.6	3.2
22	9.5	3.9	15.3	3.7	2.4	-----	-----	-----	-----	-----	0.5	4.1
23	5.7	5.6	13.7	3.5	2.4	-----	-----	-----	-----	-----	0.5	5.8
24	4.0	11.7	12.9	3.5	2.4	-----	-----	-----	-----	-----	0.5	5.3
25	3.5	8.6	9.1	3.5	2.3	-----	-----	-----	-----	-----	0.5	3.7
26	3.0	6.7	6.0	3.5	2.2	-----	-----	-----	-----	-----	0.5	2.8
27	2.5	4.7	5.2	3.4	2.1	-----	-----	-----	-----	-----	0.5	3.0
28	2.5	3.5	4.8	3.4	2.0	-----	-----	-----	-----	-----	0.9	2.8
29	2.5	-----	4.5	3.4	2.0	-----	-----	-----	-----	-----	1.1	2.3
30	2.3	-----	4.2	3.2	1.9	-----	-----	-----	-----	-----	1.1	2.0
31	2.2	-----	4.0	-----	1.9	-----	-----	-----	-----	-----	-----	2.0

DAILY RIVER STAGES.

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Mobile River system (Alabama River branch)—Oostanaula River, Rome, Ga.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	3.6	1.2	9.0	2.8	1.4	1.2	4.8	2.0	2.0	2.2	4.2
2	1.8	3.1	1.2	6.1	2.6	1.4	1.0	4.4	7.8	2.0	2.2	4.0
3	1.7	2.8	1.2	4.2	2.4	1.4	1.0	3.2	21.7	2.0	2.2	3.8
4	1.7	2.6	1.2	3.6	2.3	1.4	1.0	4.4	24.3	4.9	2.2	3.8
5	1.6	2.4	1.2	9.9	2.2	1.3	1.0	8.0	22.2	22.0	2.0	4.3
6	1.6	2.2	1.2	17.2	2.1	1.3	1.3	5.6	20.0	23.8	2.2	5.0
7	1.3	2.0	1.2	14.5	2.0	1.3	2.0	4.4	17.6	19.0	2.6	4.3
8	1.3	1.8	1.2	10.9	2.0	1.3	2.8	4.4	16.4	18.4	2.4	4.0
9	1.3	1.8	1.2	7.0	2.0	1.3	3.2	3.4	9.7	16.6	2.3	3.7
10	1.3	1.7	1.2	4.1	2.0	1.3	1.7	3.0	5.0	14.0	2.1	3.4
11	1.4	1.5	1.2	4.0	2.0	1.3	2.8	9.9	5.4	5.6	2.0	3.3
12	2.0	1.5	1.2	3.8	1.9	1.2	2.0	7.2	4.6	4.2	2.0	3.3
13	4.0	1.3	1.2	3.6	1.8	1.4	1.8	4.2	3.8	3.8	2.0	3.2
14	4.0	1.3	1.3	3.5	1.8	1.8	1.6	3.2	3.2	3.7	2.3	3.0
15	3.8	1.3	1.6	3.5	1.7	1.8	3.7	3.0	3.0	3.5	3.3	3.0
16	3.6	1.3	3.7	3.4	1.6	1.7	3.7	2.5	2.9	3.2	2.9	2.8
17	3.6	1.2	7.3	3.0	1.5	1.8	2.2	2.0	2.7	3.1	2.9	2.7
18	3.2	1.2	5.8	3.0	1.5	1.8	1.9	2.2	2.5	6.5	4.0	2.6
19	2.8	1.2	3.7	3.0	1.5	2.2	1.7	2.2	2.3	9.0	5.0	2.6
20	4.4	1.2	3.0	3.6	1.4	3.6	1.6	3.2	2.2	6.0	4.5	2.6
21	6.5	1.2	2.5	3.6	1.4	3.2	1.5	2.8	2.2	4.2	5.0	2.8
22	6.4	1.2	2.5	3.2	1.4	3.0	1.4	3.9	2.3	3.9	4.0	2.9
23	5.0	1.2	2.3	3.0	1.4	2.8	1.3	2.2	3.6	4.0	5.0	3.2
24	4.5	1.2	2.2	7.2	1.4	2.6	1.8	2.2	4.0	3.9	7.0	3.6
25	7.0	1.2	2.1	8.2	1.4	2.0	3.7	1.9	3.1	3.5	4.7	3.0
26	14.0	1.2	2.0	6.0	1.4	1.8	3.8	2.7	3.0	3.3	3.9	2.9
27	14.6	1.2	1.9	4.6	1.4	1.8	2.9	4.0	2.7	3.1	4.5	2.7
28	11.6	1.2	1.8	4.0	1.4	1.8	3.7	4.4	2.5	3.0	4.5	2.6
29	8.6	-----	2.0	3.7	1.4	1.6	4.2	3.4	2.3	2.8	4.3	2.5
30	4.6	-----	8.5	3.2	1.4	1.4	4.1	2.0	2.1	2.6	3.9	2.4
31	3.9	-----	11.4	-----	1.4	-----	4.2	2.3	-----	2.4	-----	2.4

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1	3.0	6.9	19.7	13.2	4.0	3.0	1.6	2.2	3.4	0.4	0.7	1.1
2	3.4	7.5	15.0	10.6	3.7	2.6	1.5	1.9	2.0	0.3	0.6	1.1
3	3.0	6.0	8.6	7.9	3.7	2.6	1.5	1.7	1.6	0.3	0.5	1.5
4	2.7	9.2	6.6	7.2	3.5	2.0	1.4	1.5	1.4	0.3	0.5	1.3
5	2.6	15.3	7.8	9.5	3.5	2.0	1.3	1.4	1.3	0.3	0.4	1.1
6	2.6	18.2	9.0	8.2	5.5	2.0	1.3	1.5	1.3	0.5	0.4	1.0
7	3.6	22.8	8.0	8.2	3.7	2.0	1.7	1.6	1.2	0.7	0.3	0.9
8	5.9	24.0	6.8	15.0	3.7	1.9	1.6	1.5	1.0	0.7	0.3	0.8
9	5.9	22.4	5.7	13.4	3.6	1.8	1.5	1.8	1.0	0.8	0.3	0.8
10	4.9	21.0	5.4	11.2	3.5	1.8	1.8	1.6	1.0	0.6	0.3	0.8
11	4.0	19.0	5.2	9.5	3.3	1.8	1.5	1.4	2.9	1.0	0.3	0.8
12	4.5	16.5	4.9	7.0	3.1	2.2	1.2	1.4	2.3	0.9	0.3	2.8
13	4.0	7.0	4.5	6.4	3.1	3.8	1.1	1.2	1.5	0.7	0.3	6.1
14	3.8	5.0	6.0	5.9	3.0	4.0	1.0	1.1	1.0	0.7	0.4	5.0
15	3.6	5.0	16.6	5.6	3.0	3.5	1.0	1.3	0.9	0.6	0.4	3.2
16	3.6	5.5	27.7	5.4	2.9	2.5	1.0	1.9	0.8	0.6	0.5	2.0
17	4.0	8.9	29.2	5.2	2.8	2.1	1.0	1.6	0.6	0.6	0.9	1.8
18	4.2	9.5	25.8	4.8	2.8	2.0	1.6	1.4	0.6	0.6	0.7	1.7
19	4.0	8.5	24.9	4.7	2.8	2.0	1.5	1.1	0.6	0.6	0.5	1.3
20	3.7	7.7	26.2	4.6	2.8	2.0	1.2	0.9	0.7	0.6	0.5	1.6
21	3.3	6.8	24.6	4.3	2.6	1.8	1.2	0.9	0.7	0.7	0.5	2.0
22	3.2	6.9	23.0	4.1	2.6	1.8	8.0	0.8	0.6	0.7	0.4	2.0
23	3.1	7.3	22.6	4.0	2.4	1.7	4.0	0.8	0.6	0.6	1.0	1.8
24	3.5	6.6	21.9	5.4	2.6	1.7	2.7	0.7	0.5	0.5	2.1	7.2
25	3.8	5.8	18.0	7.4	2.5	1.7	2.0	0.7	0.5	0.4	1.5	7.5
26	3.8	5.5	10.5	9.1	2.4	1.7	2.6	0.7	0.5	0.4	2.5	5.0
27	3.3	19.1	7.7	6.7	2.2	2.1	5.7	2.5	0.5	0.4	3.0	3.5
28	3.0	23.4	6.8	5.5	2.2	1.9	7.5	2.5	0.6	0.4	2.2	3.0
29	3.0	-----	8.8	4.8	2.0	1.9	5.6	2.5	0.5	0.4	1.9	3.0
30	2.9	-----	9.3	4.2	2.0	1.8	4.5	2.0	0.4	0.5	1.4	3.4
31	4.4	-----	10.2	-----	3.3	-----	3.2	2.5	-----	0.8	-----	2.0

DAILY RIVER STAGES.

*Mobile River system (Alabama River branch)—Tallapoosa River, Sturdevant, Ala.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		2.6	1.0	1.4	2.0							
2		2.4	1.0	1.4	1.9							
3		2.0	1.0	1.3	1.6							
4		2.0	1.2	1.2	1.5							
5		2.3	1.1	1.2	1.3							
6		5.3	1.3	1.1	1.2							
7		4.7	4.9	1.0	1.2							
8		4.0	4.5	1.6	1.1							
9		3.9	4.0	1.3	1.0							
10		3.6	3.6	1.2	1.0							
11		3.2	5.3	1.0	0.9							
12		2.8	4.9	1.0	0.9							
13		2.8	4.8	1.0	0.8							
14		2.2	4.5	1.2	0.7							
15		2.0	3.0	1.0	0.5							
16		1.7	2.9	1.0	0.3							
17		1.6	2.7	1.0	0.2							
18		1.5	2.4	0.9	1.0							
19		1.5	2.2	0.9	1.0							
20		1.4	3.7	0.8	0.9							
21		1.4	3.0	0.8	0.7							
22		1.3	2.9	0.8	0.6							
23		1.2	2.3	0.7	3.4							
24		1.1	3.4	0.7	2.0							
25		1.0	2.7	0.6	1.6							
26		1.0	2.2	0.6	1.0							
27		0.9	2.0	1.0	0.8							
28		0.8	1.8	0.9	0.5							
29		1.0	1.8	0.8	1.0							
30			1.6	0.3	1.0							
31			1.5		1.0							

1897.

1		2.4	1.3	2.4	2.3							0.9
2		2.0	1.3	2.7	2.0							0.9
3		1.7	1.2	2.6	1.8							0.6
4		1.9	1.2	2.6	1.8							0.4
5		1.8	1.2	2.5	1.6							0.3
6		1.8	8.4	2.7	1.5							0.1
7		1.6	8.0	2.9	1.3							0.1
8		2.3	7.2	2.8	1.3							0.2
9		3.0	6.0	2.7	1.7							0.3
10		2.9	3.7	3.8	1.4							0.2
11		2.0	4.3	3.6	1.4							0.2
12		1.8	8.0	3.4	2.2							0.3
13		1.6	11.0	2.7	2.2							0.2
14		1.1	10.0	2.7	1.9							1.5
15		1.0	8.0	3.4	1.7							1.0
16		1.9	8.0	3.1	1.5							0.8
17		1.4	7.3	3.0	1.3							0.9
18		1.3	7.0	2.8	1.3							1.8
19		1.3	6.7	2.9	1.2							1.7
20		1.0	6.3	2.6	1.1							1.5
21		1.1	6.9	2.4	1.0							1.5
22		1.0	6.4	2.4	1.0							1.3
23		2.7	6.0	2.3	1.0							2.0
24		2.0	5.8	2.2	1.0							2.3
25		1.8	5.3	2.1	1.3							2.0
26		1.9	5.0	2.0	1.0							1.9
27		1.7	4.3	2.0	1.0							1.8
28		1.4	3.5	1.8	0.9							1.7
29			3.0	1.8	0.8							1.5
30			2.7	1.9	0.8							1.4
31			2.5		0.7							1.3

DAILY RIVER STAGES.

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Mobile River system (Alabama River branch)—Tallapoosa River, Sturdevant, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.2	1.5	0.6	1.4	1.6	0.2						2.3
2	1.0	1.5	0.6	1.3	1.6	0.2						2.4
3	0.9	1.4	0.6	1.3	1.4	0.2						2.5
4	0.9	1.4	0.5	1.3	1.3	0.2						2.5
5	0.9	1.3	0.5	3.9	1.3	0.2						2.4
6	1.0	1.2	0.5	4.0	1.2	0.2						2.4
7	1.0	1.2	0.5	3.5	0.8	1.5						2.3
8	0.9	1.1	0.5	2.3	0.6	1.5						2.6
9	0.8	1.0	0.5	1.7	0.3	1.7						2.6
10	0.8	1.0	0.5	1.0	0.1	1.7						2.9
11	0.9	0.9	0.4	1.0	0.1	1.8						2.9
12	1.7	0.9	0.4	0.9	0.1	1.8						2.6
13	1.4	0.8	0.4	0.8	0.1	1.8						2.5
14	1.0	0.7	1.7	0.8	0.1	1.5						2.4
15	2.5	0.7	1.8	0.8	0.0	1.4						2.3
16	2.0	0.6	1.5	1.0	0.0	1.8						2.3
17	1.6	0.5	1.1	1.0	0.0	1.6						2.2
18	1.2	0.9	1.0	1.0	0.1	1.4						2.3
19	1.2	0.9	0.8	1.3	0.1	1.5						2.3
20	2.0	0.9	0.7	1.7	0.1	1.5						2.9
21	2.0	0.8	0.5	1.5	0.1	1.7						2.7
22	1.6	0.8	0.5	1.3	0.2	1.8						2.6
23	2.3	0.7	0.4	1.3	0.2	1.8						2.6
24	2.1	0.7	0.4	5.8	0.2	1.9						2.4
25	3.1	0.7	0.3	5.4	0.2	1.9						2.3
26	2.7	0.6	0.3	4.8	0.2	2.0						2.3
27	2.0	0.6	0.3	4.0	0.2	2.0						2.2
28	1.8	0.6	0.3	3.1	0.2	1.8						2.0
29	1.9		0.4	2.3	0.2	1.7						2.0
30	2.0		1.3	1.7	0.2	1.7						2.3
31	1.7		1.7		0.2							2.2

1899.

1	2.3	3.7										
2	2.6	3.6										
3	2.6	3.5										
4	2.9	3.9										
5	2.7	4.8										
6	2.5	8.0										
7	2.5	7.5										
8	2.7	7.2										
9	2.9	6.7										
10	2.6	6.5										
11	4.7	6.2										
12	4.0	5.8										
13	3.6	5.6										
14	3.0	5.3										
15	3.0	5.4										
16	2.8	5.7										
17	3.4	5.3										
18	3.1	4.5										
19	2.6	3.8										
20	2.4	3.0										
21	2.4	3.0										
22	2.2	2.7										
23	2.0	2.4										
24	2.0	2.3										
25	2.5	2.0										
26	2.3	2.0										
27	2.0	10.4										
28	2.0	7.4										
29	2.4											
30	2.9											
31	4.8											

DAILY RIVER STAGES.

*Mobile River system (Alabama River branch)—Tallapoosa River, Tallassee, Ala.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		1.6	0.6	1.4								
2		1.7	1.3	3.2								
3		1.7	1.2	3.0								
4		2.1	1.1	2.5								
5		2.0	1.1	2.2								
6		3.1	1.0	2.0								
7		4.5	4.1	1.7								
8		3.2	3.8	1.4	1.3							
9		4.5	3.0	1.2	1.0							
10		3.4	2.6	1.1	0.8							
11		2.5	4.3	1.0	0.6							
12		2.2	3.7	0.8	0.5							
13		2.0	3.2	0.7	0.4							
14		2.8	2.8	0.6	0.3							
15		2.6	2.7	0.5	0.9							
16		2.2	2.7	0.5	0.7							
17		1.9	2.9	0.4	0.6							
18		1.7	2.7	0.4	0.5							
19		1.4	3.0	0.3	0.4							
20		1.2	3.6	0.3	0.3							
21		1.0	3.0	0.2	0.2							
22		0.9	2.8	0.2	0.1							
23		0.8	2.5	0.2	0.1							
24		0.8	2.7	0.1	0.5							
25		0.8	3.7	0.1	0.5							
26		0.7	3.2	0.0	0.4							
27		0.6	2.7	0.2	0.3							
28		0.6	2.3	0.4	0.2							
29		0.9	2.0		2.8							
30			1.9		2.9							
31			1.7		2.3							

1897.

1		1.0	1.8	2.0	3.0							0.2
2		3.1	1.6	2.5	2.9							0.2
3		3.2	1.5	2.6	2.3							0.3
4		2.4	1.6	2.2	1.9							0.3
5		2.0	1.8	2.1	1.6							0.3
6		2.1	7.6	2.0	1.5							0.3
7		2.1	9.0	2.0	1.4							0.4
8		2.5	5.5	1.8	1.3							0.4
9		2.3	4.3	2.8	1.3							0.4
10		1.9	3.1	3.5	1.2							0.4
11		2.0	3.0	2.8	1.1							0.5
12		5.0	3.1	2.2	1.0							0.4
13		4.5	6.2	2.2	1.2							0.4
14		3.1	9.2	2.0	1.3							3.5
15		2.5	7.2	2.4	1.3							2.1
16		2.5	5.0	2.6	1.2							2.0
17		2.6	4.3	2.3	1.1							2.0
18		1.9	3.3	2.0	1.0							2.0
19		1.7	2.8	1.8	1.0							1.9
20		1.5	3.8	1.6	0.9							1.8
21		1.5	2.8	1.6	0.9							1.7
22		1.4	2.8	1.5	0.8							1.7
23		1.8	5.9	1.4	0.8							1.9
24		2.4	6.0	1.3	0.7							1.8
25		2.7	3.9	1.3	0.7							1.7
26		3.0	3.1	1.3	0.7							1.8
27		2.4	2.7	1.3	0.7							1.8
28		2.0	2.4	1.3	0.7							1.8
29			2.2	1.3	0.7							1.8
30			2.0	1.7	0.7							1.7
31			2.0		0.7							1.7

DAILY RIVER STAGES.

249

Mobile River system (Alabama River branch)—Tallapoosa River—Tallapoosa, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.6	0.8	0.4	2.0	0.9							1.8
2	0.6	0.7	0.4	1.6	0.8							1.7
3	0.5	0.7	0.5	1.4	0.8							2.7
4	0.5	0.7	0.8	1.3	0.8							3.6
5	0.4	0.5	1.0	5.7	0.8							2.8
6	0.5	0.6	1.0	5.4	0.7							2.6
7	0.4	0.5	0.9	3.6	0.7							2.3
8	0.3	0.5	0.8	2.4	0.6							2.0
9	0.4	0.5	0.7	1.9	0.5							1.7
10	0.4	0.5	0.7	1.6	0.5							2.2
11	0.5	0.5	0.6	1.4	0.4							2.0
12	0.5	0.7	0.5	1.2	0.4							1.9
13	0.5	0.6	0.5	1.0	0.4							1.6
14	0.5	0.5	0.6	1.0	0.3							1.5
15	0.4	0.5	0.6	1.0	0.3							1.5
16	0.6	0.5	1.0	0.9	0.3							1.4
17	0.7	0.5	1.0	0.9	0.3							1.2
18	0.7	0.6	0.9	0.8	0.2							1.1
19	0.7	0.8	0.9	0.8	0.2							1.5
20	0.7	0.8	0.9	0.8	0.2							2.5
21	1.3	0.7	0.8	0.8	0.1							2.3
22	1.3	0.7	0.8	0.8	0.1							2.0
23	1.3	0.7	0.7	0.9	0.0							1.8
24	1.2	0.6	0.6	5.0	0.0							1.7
25	1.0	0.6	0.6	3.8	-0.1							1.7
26	1.3	0.5	0.5	2.3	-0.1							1.7
27	1.6	0.6	0.4	1.7	-0.1							1.6
28	1.6	0.5	0.4	1.4	0.0							1.5
29	1.3		0.7	1.2	0.0							1.5
30	1.2		1.7	1.0	-0.1							1.5
31	1.0		2.1		-0.1							1.6

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.0	5.0	6.4	5.5	1.8							1.0
2	1.8	3.0	5.4	4.3	1.7							1.0
3	1.7	7.8	3.8	3.3	1.6			1.0				1.0
4	1.5	5.5	3.0	3.0	1.6							1.1
5	1.4	3.6	4.8	3.1	1.5					0.0		1.0
6	1.5	3.7	4.5	3.6	1.5							0.9
7	1.7	5.0	3.5	3.7	1.5							0.9
8	2.5	6.5	3.2	4.6	1.5							0.8
9	2.4	5.2	2.8	4.6	1.5							0.8
10	2.2	3.6	2.6	3.8	1.7							0.7
11	6.0	3.2	2.6	3.1	1.6							0.7
12	4.5	3.0	2.6	2.8	1.4							5.0
13	3.4	3.0	2.5	2.8	1.4							4.0
14	3.4	2.6	2.4	2.6	1.4							2.7
15	2.6	2.5	2.9	2.6	1.3							1.8
16	2.6	3.0	4.0	2.8	1.3							1.4
17	3.7	3.6	4.0	2.7	1.2							1.1
18	3.0	3.1	3.7	2.5	1.1							1.0
19	2.7	2.9	4.7	2.3	1.1							0.9
20	2.4	2.7	4.3	2.3	1.1							1.0
21	2.2	2.8	3.6	2.3	1.1							1.0
22	2.0	2.8	2.8	2.2	1.0							1.0
23	1.9	2.7	2.8	2.2	1.0	4.6						1.0
24	1.9	2.6	2.7	3.0	1.3	6.2						4.1
25	1.9	2.6	2.7	3.3	2.0							2.8
26	1.8	2.6	2.7	2.6	1.8						2.5	2.6
27	1.8	9.6	2.6	2.3	1.3							2.0
28	1.8	13.0	2.6	2.2	1.1							1.8
29	2.2		3.4	2.0	1.0	3.0						1.6
30	2.0		3.0	2.0	1.0							1.5
31	2.3		2.9		1.0							1.5

DAILY RIVER STAGES.

Mobile River system—Tombigbee River, Columbus, Miss.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.1	1.9	7.0	5.7	4.8	1.0	-0.3	-1.1	-2.4	-2.8	-2.6	-2.4
2	6.6	14.2	6.7	10.7	6.0	0.7	-0.4	-1.2	-2.4	-2.8	-2.7	-2.8
3	5.8	20.0	6.3	11.3	6.2	0.2	-0.5	-1.3	-2.3	-2.9	-2.6	-2.4
4	5.2	25.2	5.0	10.7	5.6	0.1	-0.6	-1.4	-2.4	-2.9	-2.5	-1.4
5	4.5	28.6	4.2	10.4	4.8	0.2	-0.7	-1.3	-2.4	-2.8	-2.4	-0.7
6	3.4	30.1	4.0	9.6	4.8	0.3	-0.8	-1.4	-2.4	-2.9	-2.2	-0.1
7	3.1	30.4	7.4	8.2	3.3	0.5	-0.9	-1.5	-2.5	-2.9	-2.1	-0.4
8	4.6	29.8	9.4	6.7	2.6	0.8	-0.4	-1.6	-2.6	-3.0	-2.0	-0.6
9	5.7	29.1	11.1	6.0	1.8	0.6	-0.2	-1.7	-2.6	-2.9	-1.9	-0.9
10	6.3	28.0	13.0	5.6	1.2	0.4	-0.4	-1.8	-2.7	-2.8	-1.8	-1.3
11	4.8	26.5	14.9	5.2	0.9	0.3	-0.6	-1.8	-2.7	-2.8	-1.7	-1.8
12	4.6	24.7	15.4	4.5	0.7	0.2	-0.4	-1.9	-2.7	-2.7	-1.5	-2.2
13	4.5	22.8	14.1	3.6	0.6	0.3	-0.6	-1.9	-2.6	-2.6	-1.4	-2.4
14	3.4	21.1	12.4	5.4	0.4	0.4	-0.7	-1.8	-2.6	-2.6	-1.4	-2.6
15	3.1	20.6	10.7	8.2	0.6	0.3	-0.6	-1.8	-2.5	-2.5	-1.5	-2.4
16	2.6	19.0	10.0	8.4	1.0	0.2	-0.5	-1.9	-2.5	-2.6	-1.6	-2.2
17	2.2	16.8	10.9	8.1	0.9	0.3	-0.4	-1.9	-2.6	-2.7	-1.7	-2.0
18	2.4	15.8	11.1	7.6	0.5	1.6	-0.3	-2.0	-2.6	-2.7	-1.8	-1.7
19	2.9	14.2	15.7	6.1	0.2	2.3	-0.2	-2.1	-2.7	-2.6	-1.8	-1.4
20	3.1	12.4	17.8	4.7	0.0	1.6	-0.3	-2.1	-2.7	-2.5	-1.9	-1.2
21	3.6	8.1	18.6	3.8	-0.1	1.8	-0.3	-2.2	-2.8	-2.4	-2.0	-1.0
22	4.8	6.1	18.4	3.0	-0.2	1.3	-0.4	-2.3	-2.8	-2.5	-2.1	-1.5
23	6.2	4.6	18.0	2.2	-0.3	0.9	-0.5	-2.3	-2.7	-2.4	-2.2	-2.2
24	7.4	4.0	18.0	1.8	-0.3	0.7	-0.4	-2.4	-2.7	-2.4	-2.2	-2.4
25	6.8	3.4	17.4	1.0	-0.4	0.6	-0.5	-2.4	-2.8	-2.6	-2.2	-2.6
26	6.5	3.2	16.0	0.9	-0.4	0.4	-0.6	-2.5	-2.9	-2.7	-2.3	-2.7
27	6.1	3.0	14.4	1.0	-0.3	0.3	-0.6	-2.5	-2.9	-2.8	-2.3	-2.8
28	3.6	3.0	13.0	1.2	-0.2	0.1	-0.7	-2.6	-3.0	-2.9	-1.5	-2.9
29	3.2	5.2	10.3	1.1	0.4	-0.1	-0.7	-2.6	-3.0	-2.8	-0.2	-2.9
30	2.6	-----	7.8	3.5	1.6	-0.2	-0.9	-2.6	-2.9	-2.6	-1.7	-2.8
31	2.6	-----	5.6	-----	1.7	-----	-1.0	-2.5	-----	-2.5	-----	-2.8

1897.

1	-2.7	0.4	1.6	8.7	1.6	-1.7	-2.9	-3.1	-2.4	-3.6	-3.3	-3.6
2	-2.6	0.6	-0.2	7.1	2.6	-1.8	-2.8	-3.1	-2.5	-3.6	-3.0	-3.5
3	-2.5	2.6	-0.6	5.8	4.2	-1.8	-2.8	-3.0	-2.5	-3.6	-3.2	-2.8
4	-2.2	3.0	-0.4	6.5	3.4	-1.6	-2.7	-3.1	-2.6	-3.6	-3.3	7.0
5	-1.1	3.3	-0.2	9.0	2.8	-1.7	-2.7	-3.1	-2.6	-3.6	-3.4	8.0
6	-0.9	4.6	6.0	11.3	2.6	-2.0	-2.7	-3.2	-2.7	-3.5	-3.4	7.7
7	-0.4	5.4	13.6	10.9	2.2	-2.3	-2.6	-3.2	-2.8	-3.5	-3.5	5.0
8	-0.6	5.9	15.4	10.4	1.8	-2.4	-2.4	-3.0	-2.8	-3.6	-3.5	4.2
9	-0.9	6.5	16.2	11.1	0.7	-2.4	-2.5	-1.6	-2.9	-3.6	-3.6	3.7
10	-1.2	6.4	16.6	11.7	-0.4	-2.4	-2.4	-1.5	-3.0	-3.6	-3.6	3.2
11	-1.4	6.1	18.2	10.5	0.1	-2.5	-2.2	-0.6	-3.0	-3.5	-3.6	3.0
12	-1.8	5.8	18.6	9.2	3.5	-2.5	-1.8	0.6	-3.1	-3.2	-3.6	3.1
13	-2.1	5.2	18.0	7.6	4.5	-2.6	-1.8	-0.2	-3.1	-3.3	-3.6	3.3
14	-2.2	4.6	18.8	6.3	5.4	-2.7	-1.9	-0.6	-3.2	-3.4	-3.6	3.1
15	-2.0	3.7	20.4	5.6	6.0	-2.7	-1.9	-0.9	-3.2	-3.4	-3.6	2.8
16	0.2	2.9	23.6	4.8	6.8	-2.6	-1.8	-1.3	-3.3	-3.5	-3.6	2.6
17	2.8	2.5	25.5	4.2	6.6	-2.6	-0.2	-1.4	-3.3	-3.5	-3.5	2.4
18	5.1	2.2	26.4	3.7	5.8	-2.7	-0.6	-1.9	-3.3	-3.5	-3.6	2.6
19	6.0	1.8	27.6	3.3	5.0	-2.7	-1.6	-2.3	-3.4	-3.6	-3.6	3.5
20	5.4	1.2	28.6	3.2	3.9	-2.6	-1.5	-2.6	-3.4	-3.6	-3.6	4.2
21	5.2	0.7	28.9	2.6	2.8	-2.6	-1.6	-2.7	-3.4	-3.6	-3.6	6.0
22	5.0	0.1	31.0	1.6	2.2	-2.6	-2.0	-2.7	-3.5	-3.6	-3.6	8.3
23	4.5	-0.2	31.9	0.7	1.4	-2.5	-2.4	-2.8	-3.5	-3.6	-3.6	11.5
24	3.7	0.1	30.0	0.2	0.7	-2.6	-2.6	-2.9	-3.5	-3.6	-3.7	10.9
25	2.8	1.0	27.9	0.2	0.2	-2.6	-2.7	-2.9	-3.5	-3.6	-3.7	10.4
26	2.5	2.2	25.6	0.6	-0.2	-2.7	-2.8	-1.6	-3.4	-3.6	-3.7	10.5
27	2.2	2.8	23.8	0.9	-0.6	-2.7	-2.8	-1.6	-3.4	-3.6	-3.7	10.1
28	1.6	2.4	21.2	1.2	-0.9	-2.8	-2.9	-2.0	-3.5	-3.7	-3.7	9.6
29	1.2	-----	18.2	1.6	-1.2	-2.8	-2.9	-2.2	-3.5	-3.7	-3.6	8.5
30	0.9	-----	14.5	1.8	-1.4	-2.9	-3.0	-2.3	-3.5	-3.7	-3.6	6.4
31	0.7	-----	11.2	-----	-1.6	-----	-3.0	-2.3	-----	-3.6	-----	4.6

DAILY RIVER STAGES.

251

Mobile River system—Tombigbee River, Columbus, Miss.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.0	13.2	2.4	9.8	1.9	-2.3	-1.6	-2.0	-3.2	-1.6	-2.8	0.1
2	3.4	11.4	3.1	9.5	1.2	-2.4	-1.8	-2.4	-3.2	-1.6	-2.9	-0.3
3	2.6	6.5	3.6	8.9	0.7	-2.4	-2.2	-2.6	-3.3	-1.8	-3.0	-0.6
4	1.8	4.2	4.0	7.5	1.8	-2.2	-2.4	-2.6	-3.3	-2.2	-3.0	-0.4
5	1.4	3.4	2.9	6.3	1.9	-2.4	-2.2	-2.0	-3.4	-2.4	-3.1	-0.1
6	0.9	2.8	1.6	6.5	2.2	-2.6	-2.0	-1.1	-3.4	-2.6	-3.0	0.1
7	0.4	2.4	0.9	6.0	1.8	-2.7	-2.2	-1.0	-3.5	-2.7	-3.1	-0.5
8	0.1	1.4	0.4	5.3	1.2	-2.8	-2.3	-0.6	-3.5	-2.8	-3.1	-0.7
9	-0.2	0.7	0.0	4.5	0.5	-2.8	-2.1	-0.1	-3.5	-0.4	-3.2	-0.9
10	-0.5	0.4	-0.2	3.3	0.0	-2.9	-2.2	0.4	-3.6	1.0	-2.8	-1.1
11	2.0	0.1	-0.6	2.5	-0.2	-3.0	-2.3	0.5	-3.6	1.5	-2.5	-1.3
12	5.6	-0.2	-1.2	2.3	-0.4	-3.0	-2.4	2.4	-3.6	1.4	-2.6	-1.4
13	7.4	-0.4	-1.3	2.3	-0.9	-3.1	-2.4	2.1	-3.5	0.9	-2.1	-1.4
14	7.7	-0.6	-0.6	2.9	-1.1	-2.5	-2.5	1.6	-3.5	0.2	-1.5	-1.3
15	9.8	-0.7	3.3	2.2	-1.3	1.4	-2.6	1.4	-3.5	-0.4	-1.8	-1.6
16	14.2	-0.9	5.6	1.6	-1.6	1.5	-2.0	0.7	-3.6	-1.4	-2.1	-1.7
17	14.9	-0.9	7.4	1.0	-1.8	1.7	-1.6	-0.2	-3.6	-2.4	-2.0	-2.0
18	14.5	-0.7	7.8	0.6	-1.9	0.7	-1.4	-0.9	-3.6	-1.1	-1.9	-2.2
19	15.3	0.2	7.4	3.1	-2.1	0.4	-1.1	-1.6	-3.7	-1.6	-2.0	-2.0
20	17.9	0.4	6.3	8.4	-2.2	-0.2	-0.9	-1.7	-3.7	-1.1	-2.1	0.5
21	18.6	0.1	4.8	9.6	-2.2	-1.4	-0.9	-1.8	-3.5	-0.2	-2.4	2.0
22	17.4	-0.1	4.3	10.8	-2.3	-2.2	-1.2	-2.0	-0.6	-0.6	1.5	2.6
23	19.2	-0.2	4.0	11.9	-2.2	-2.6	-1.3	-2.4	0.8	-1.3	2.1	3.1
24	20.9	-0.3	2.6	12.3	-0.6	-2.9	-1.3	-2.7	-0.4	-1.6	1.8	3.5
25	21.5	-0.4	1.8	11.4	-0.2	-2.7	-0.2	-3.1	-0.9	-1.8	1.4	3.4
26	21.3	-0.6	-1.2	9.5	0.4	-2.6	-0.5	-3.3	-1.2	-2.0	1.0	3.1
27	20.1	1.1	-0.9	7.1	0.2	-2.4	-0.9	-3.4	-1.6	-2.1	0.7	2.1
28	18.8	1.8	-0.4	5.0	-0.4	-2.2	-1.0	-3.5	-1.8	-2.4	0.6	0.9
29	17.7	.....	3.0	3.5	-0.9	-2.0	-1.4	-3.5	-2.0	-2.6	1.8	0.4
30	16.4	.....	8.2	2.6	-1.6	-1.7	-1.6	-3.4	-1.8	-2.8	1.0	-0.2
31	14.9	.....	9.9	.....	-2.2	.....	-1.8	-3.3	.....	.....	.....	-0.5

1899.

1	-0.2	3.8	14.4	5.8	0.4	-1.5	-2.5	-0.4	-1.3	-3.8	-3.6	-0.3
2	0.1	4.2	14.1	4.5	0.3	-1.7	-2.6	-0.9	-1.8	-3.8	-3.7	-0.9
3	-0.4	5.1	15.0	3.4	0.2	-1.8	-2.6	-1.2	-2.4	-3.7	-3.6	-1.6
4	0.4	10.3	15.6	2.8	0.1	-2.0	-2.7	-1.6	-2.9	-3.6	-3.6	-2.2
5	2.4	13.5	12.8	2.2	0.0	-2.1	-2.7	-1.8	-3.2	-3.6	-3.7	-2.4
6	10.5	17.0	10.2	1.8	-0.2	-2.2	-2.8	-2.0	-3.3	-3.7	-3.7	-2.6
7	17.0	19.8	7.3	2.3	-0.3	-2.3	-2.9	-2.2	-3.4	-3.6	-3.6	-2.7
8	18.8	21.0	6.1	2.4	-0.4	-2.4	-2.9	-2.2	-3.5	-3.6	-3.6	-2.8
9	20.4	19.8	4.8	2.2	-0.5	-2.4	-2.9	-2.0	-3.6	-3.7	-3.5	-2.9
10	21.5	17.7	3.2	1.9	-0.6	-2.5	-3.0	-2.1	-3.7	-3.7	-3.5	-2.8
11	21.8	15.4	2.2	1.8	-0.6	-2.4	-3.0	-2.0	-3.8	-3.8	-3.5	6.6
12	20.0	12.8	1.6	1.6	-0.7	-2.2	-3.0	-2.2	-3.7	-3.7	-3.4	13.4
13	18.4	11.4	1.4	1.4	-0.7	-2.1	-2.9	-2.3	-3.8	-3.6	-3.4	13.0
14	16.6	9.6	3.8	1.0	-0.8	-2.2	-2.9	-2.4	-3.7	-3.7	-3.5	10.4
15	14.9	6.7	19.8	0.9	-0.9	-2.3	-3.0	-2.6	-3.6	-3.7	-3.5	10.0
16	13.6	6.5	27.6	0.7	-0.9	-2.4	-3.0	-2.7	-3.6	-3.6	-3.6	8.8
17	10.0	7.0	31.4	0.6	-1.0	-2.5	-3.0	-2.6	-3.6	-3.6	-3.6	6.7
18	12.4	7.6	31.2	0.5	-1.1	-2.6	-2.9	-2.2	-3.7	-3.6	-3.7	4.3
19	11.2	7.4	29.6	0.4	-0.9	-2.7	-3.0	-2.0	-3.7	-3.6	-3.6	4.6
20	8.1	7.1	27.9	0.5	-0.9	-2.7	-3.0	-2.1	-3.6	-3.7	-3.6	5.6
21	5.0	6.6	24.8	0.4	-0.8	-2.8	-2.9	-2.2	-3.7	-3.5	-3.5	5.9
22	3.4	6.8	20.4	0.5	-0.7	-2.8	-2.8	-2.3	-3.6	-3.6	-3.2	5.6
23	2.8	6.1	18.2	0.6	-0.6	-2.9	-2.2	-2.4	-3.6	-3.7	-2.1	8.9
24	2.9	4.8	16.8	0.7	-0.6	-2.8	-1.6	-2.6	-3.7	-3.7	-1.9	10.4
25	3.2	4.0	14.5	0.8	-0.7	-1.3	-0.9	-2.7	-3.7	-3.8	-1.8	11.5
26	3.0	4.5	11.2	0.7	-0.8	-1.8	0.3	-2.7	-3.6	-3.8	-1.3	9.2
27	2.9	8.4	8.8	0.6	-1.0	-2.2	1.1	-2.5	-3.6	-3.7	-0.9	7.1
28	2.8	12.6	7.4	0.6	-1.2	-2.3	1.1	-2.2	-3.7	-3.6	-0.6	7.4
29	2.6	.....	6.3	0.5	-1.3	-2.4	0.9	-1.7	-3.8	-3.5	-0.4	7.4
30	2.2	.....	5.1	0.4	-1.3	-2.4	0.4	-1.3	-3.8	-3.5	-0.2	6.7
31	2.6	.....	6.0	.....	-1.4	.....	0.0	-1.1	.....	-3.6	.....	4.8

DAILY RIVER STAGES.

Mobile River system—Tombigbee River, Demopolis, Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.0	11.8	12.0	27.2	19.8	5.9	1.1	0.8	-1.2	-2.5	-2.1	3.2
2	17.3	12.8	12.0	23.9	20.3	5.9	1.3	1.3	-1.4	-2.5	-2.0	5.0
3	15.0	13.8	13.0	23.0	22.0	5.9	1.1	1.0	-1.8	-2.5	-1.9	6.8
4	13.8	19.9	13.2	24.0	24.8	6.3	0.9	-----	-1.9	-2.5	-1.8	6.9
5	11.8	26.5	12.6	24.8	26.6	4.6	0.7	1.5	-0.8	-2.5	-1.6	6.3
6	9.7	32.7	10.0	25.6	27.7	5.0	0.6	1.6	-2.0	-2.5	-1.5	5.0
7	8.5	37.7	10.0	24.9	26.6	4.8	0.2	2.0	-2.4	-2.2	-1.5	3.8
8	7.9	41.3	12.0	23.2	23.8	5.4	0.2	2.0	-2.6	-1.9	-1.4	2.8
9	8.0	44.0	14.8	20.7	20.0	5.4	0.3	1.4	-2.8	-1.8	-1.5	2.0
10	8.6	45.2	16.8	17.8	16.0	6.0	1.5	1.0	-3.0	-1.8	-1.6	1.5
11	9.5	46.0	19.4	15.6	12.0	6.5	3.4	0.9	-3.2	-2.0	-1.5	1.0
12	9.5	46.7	22.8	14.0	9.4	7.9	4.2	1.0	-3.3	-2.1	-1.4	0.7
13	9.5	47.5	23.9	12.5	7.6	9.5	3.7	1.2	-----	-2.3	-1.3	0.4
14	9.0	48.4	24.5	14.3	6.6	9.0	2.7	1.3	-3.0	-2.4	-1.4	0.1
15	8.1	49.0	24.5	25.0	5.5	8.2	2.0	1.5	-3.1	-2.4	-1.4	0.3
16	7.0	-----	24.6	30.2	4.9	6.2	1.5	1.6	-3.2	-2.4	-1.5	0.5
17	8.4	-----	25.0	31.4	5.8	4.2	1.3	1.8	-3.3	-2.5	-1.5	0.5
18	7.9	50.6	24.8	30.6	5.7	3.3	1.9	1.9	-3.4	-2.5	-1.3	1.1
19	8.0	49.4	26.0	27.6	4.8	5.0	1.8	1.9	-3.4	-2.5	-1.2	1.5
20	8.2	48.8	32.0	24.4	4.2	6.9	1.7	2.1	-3.5	-2.5	-1.1	1.5
21	8.7	47.8	32.8	20.4	4.6	7.7	1.0	2.3	-3.6	-2.5	-1.0	1.4
22	11.0	46.3	-----	15.8	3.0	8.3	0.9	-----	-3.5	-2.5	-1.0	1.4
23	20.2	43.0	36.6	11.9	2.9	6.7	0.8	2.4	-3.4	-2.5	-1.0	1.1
24	25.5	39.7	37.0	9.6	2.4	5.7	0.8	2.4	-3.5	-2.3	-1.0	0.8
25	25.3	34.1	38.5	7.9	2.1	4.6	-----	2.0	-3.6	-2.4	-1.2	0.4
26	25.0	20.2	38.2	7.4	2.0	4.0	0.9	1.9	-3.7	-2.4	-1.3	0.2
27	24.7	15.7	38.0	6.9	2.0	3.5	0.7	1.2	-3.9	-2.3	-1.4	0.0
28	23.1	13.2	37.8	7.3	1.8	3.0	0.5	1.4	-3.9	-2.3	-1.4	-0.2
29	20.9	11.8	-----	6.6	3.0	2.5	0.2	0.6	-3.5	-2.3	-1.3	-0.4
30	17.3	-----	34.4	11.6	3.5	1.8	0.0	0.8	-3.2	-2.2	-0.4	-0.5
31	14.5	-----	31.5	-----	4.7	-----	0.6	1.1	-----	-2.1	-----	-0.7

1897.

1	-0.9	5.4	13.8	52.4	8.0	1.3	-1.4	0.0	-1.3	-2.4	-2.5	-2.1
2	-0.9	5.8	12.2	51.8	8.2	1.1	-1.5	-0.5	-1.5	-2.4	-2.3	-2.1
3	-0.9	5.9	10.0	49.8	8.8	0.9	-1.5	-0.7	-1.6	-2.4	-2.2	-2.0
4	-0.5	8.3	8.6	48.6	9.6	0.9	-1.5	-1.0	-1.7	-2.4	-2.2	-1.6
5	-0.1	11.8	7.7	46.8	9.3	1.4	-1.5	-1.1	-1.7	-2.4	-2.2	5.5
6	0.7	14.8	14.4	44.7	6.4	2.7	-1.5	-1.3	-1.9	-2.4	-2.2	11.0
7	1.9	17.2	26.7	41.8	7.2	2.0	-1.4	-1.4	-1.9	-2.5	-2.3	16.4
8	2.7	19.8	32.5	39.6	5.9	1.2	-1.4	-1.5	-2.0	-2.5	-2.3	17.4
9	2.8	20.7	34.4	38.0	5.1	1.5	-0.5	-0.3	-2.0	-2.5	-2.1	15.2
10	3.1	21.8	36.0	36.8	4.2	1.7	1.0	2.3	-2.0	-2.5	-1.9	13.2
11	3.2	23.0	37.6	35.8	3.7	1.3	0.9	0.9	-2.0	-2.5	-1.9	10.5
12	2.8	26.6	39.5	34.9	3.3	0.8	0.5	1.7	-2.0	-2.5	-1.9	8.2
13	2.4	28.6	41.7	34.0	4.5	0.5	0.1	2.3	-2.1	-2.6	-1.9	7.1
14	1.6	27.4	44.1	32.6	9.1	0.1	-0.1	2.8	-2.1	-2.6	-2.0	6.8
15	-----	26.6	45.3	29.8	14.0	0.0	-0.3	2.0	-2.1	-2.6	-2.1	4.8
16	-----	24.8	45.8	29.4	17.6	-0.1	-0.5	1.4	-2.1	-2.6	-2.1	4.0
17	-----	22.8	46.3	27.1	19.2	-0.2	-0.6	0.8	-2.1	-2.6	-2.2	3.8
18	-----	19.6	46.7	24.2	19.1	-0.3	-0.8	0.2	-2.1	-2.6	-2.2	3.8
19	11.7	16.6	47.4	21.4	17.8	-0.5	-0.9	-0.2	-2.2	-2.6	-2.3	3.8
20	16.0	14.5	48.3	18.6	15.5	-0.7	4.0	0.1	-2.2	-2.6	-2.3	4.5
21	19.9	12.1	49.2	16.0	12.1	-0.9	6.6	0.6	-2.2	-2.6	-2.3	7.1
22	20.6	9.5	49.9	13.5	9.1	-0.9	7.2	0.5	-2.3	-2.6	-2.3	9.5
23	19.8	11.3	50.6	11.6	6.7	-0.7	8.2	0.4	-2.3	-2.6	-2.3	14.3
24	18.8	11.8	51.2	10.0	5.6	-0.8	7.6	0.1	-2.3	-2.6	-2.3	20.8
25	17.4	12.3	51.7	8.8	4.7	-0.9	5.2	-0.6	-2.3	-2.6	-2.3	25.2
26	15.8	14.5	52.0	7.7	3.7	-0.9	4.0	-1.0	-2.3	-2.6	-2.3	26.8
27	12.5	15.9	53.2	7.0	3.1	-1.1	3.6	-1.0	-2.3	-2.6	-2.4	27.4
28	10.0	15.0	54.3	6.5	2.6	-1.2	2.3	-0.5	-2.3	-2.6	-2.4	27.0
29	8.4	-----	54.8	5.9	2.2	-1.3	1.2	-0.6	-2.4	-2.6	-2.0	25.4
30	7.1	-----	54.6	6.2	1.9	-1.4	0.8	-1.0	-2.4	-2.6	-2.0	22.8
31	5.8	-----	53.0	-----	1.5	-----	0.4	-1.2	-----	-2.6	-----	19.0

DAILY RIVER STAGES.

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Mobile River system—Tombigbee River, Demopolis, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.6	46.0	4.8	23.8	16.5	0.7	-0.1	3.3	0.9	-1.6	-0.4	9.6
2		45.7	7.0	27.2	13.8	0.3	-0.4	3.3	0.0	-2.0	-0.9	8.3
3		44.6	7.2	28.2	12.0	-0.2	-0.6	2.6	-0.5	-2.2	-1.2	8.7
4		42.8	7.2	27.8	10.4	-0.5	0.0	1.8	-1.0	-1.7	-1.3	8.3
5		40.1	7.0	29.7	9.2	-0.4	1.7	1.3	-1.3	-1.6	-1.5	7.9
6		35.0	6.6	31.7	8.4	-0.1	0.5	1.6	-1.5	-1.8	-1.7	6.7
7		29.5	6.0	32.9	7.9	-0.3	-0.5	2.8	-1.6	-1.9	-1.8	6.2
8	5.0	23.0	5.6	32.5	7.5	-0.7	-0.9	3.3	-2.0	-2.0	-1.9	5.4
9		17.0	4.7	32.1	7.2	-1.0	-0.8	3.6	-2.4	-2.0	-2.0	5.0
10		13.8	4.2	31.4	6.1	-1.2	-0.7	4.3	-2.5	-1.8	-0.8	5.2
11	4.8	11.0	3.8	29.6	5.4	-1.4	-0.9	7.7	-2.5	0.2	0.6	5.0
12	5.5	9.8	3.5	26.8	4.6	-1.4	-0.9	9.9	-2.6	2.4	-0.1	4.5
13	8.3	9.2	3.4	24.5	4.0	-1.4	-0.3	11.1	-2.6	3.1	0.3	3.8
14	11.1	8.7	3.4	22.0	3.4	-1.5	-0.7	11.5	-2.6	3.5	2.0	3.5
15	14.0	8.1	4.5	18.0	3.1	-1.0	-1.2	10.4	-2.6	2.9	2.5	2.8
16	16.2	7.6	8.8	14.0	2.8	-0.8	-0.7	8.8	-2.6	1.6	2.3	2.5
17	18.0	7.6	11.7	12.6	2.4	-0.1	-0.3	7.2	-2.7	0.7	2.4	2.3
18	21.2	7.3	14.0	11.6	2.2	0.9	-0.4	5.2	-2.8	0.3	2.6	2.0
19	23.8	7.2	16.0	10.5	1.5	1.5	-0.3	3.2	-2.9	0.0	3.6	3.2
20	26.2	6.9	16.0	9.3	1.3	1.8	-0.7	1.8	-3.0	-0.5	3.4	15.7
21	28.7	6.7	15.0	12.0	1.0	1.0	0.4	1.1	-3.0	0.7	2.8	17.8
22	32.6	6.5	12.0	18.8	0.7	1.6	0.8	0.2	-2.7	0.8	3.8	19.0
23	36.4	6.2	10.2	23.7	0.5	1.0	0.5	-0.4	-2.0	1.5	7.6	19.9
24	37.4	5.9	8.4	26.4	0.3	0.1	0.5	-0.9	0.9	2.5	9.9	19.0
25	38.5	5.4	7.4	28.5	0.1	0.5	0.7	-1.0	3.7	2.7	11.7	16.8
26	40.2	5.0	6.8	28.9	0.0	0.7	0.1	0.1	3.5	2.8	12.0	14.9
27	41.0	5.0	6.2	28.7	1.4	0.9	0.4	0.6	2.4	2.5	11.2	12.0
28	42.0	4.9	5.6	27.6	1.8	0.5	1.7	1.3	1.3	1.9	10.1	9.7
29	43.2		5.4	25.0	1.8	0.8	2.4	0.9	0.0	1.0	9.7	7.7
30	44.4		9.4	21.6	1.7	0.4	1.8	-0.2	-1.0	0.6	10.1	5.5
31	45.4		17.5		1.3		2.4	-0.6		0.1		4.5

1899.

1	4.6	25.9	38.6	51.7		1.2	-1.0	7.7	0.0	-3.3	-3.5	6.8
2	3.9	27.4	39.0	50.0		1.0	-1.1	6.5	-0.5	-3.3	-3.5	6.0
3	4.0	31.8	39.5	48.6	7.1	1.0	-1.2	3.2	-0.6	-3.3	-3.5	4.0
4	4.0	33.9	39.9	46.6	6.5	0.7	-1.3		-0.7	-3.3	-3.5	2.8
5	4.1	36.8	39.9	44.6	5.6	0.4	-1.4	2.2	-0.8	-3.3		1.8
6	12.6	37.0	39.9	42.0	5.0	0.2	-1.7	1.5	-1.1	-3.3	-3.5	1.2
7	24.5	38.9	39.3	40.0	4.4	-0.2	-1.7	0.9	-1.7	-3.4	-3.5	0.5
8	31.0	40.8	38.0	38.4	4.0	-0.5	-1.8	0.1	-2.2	-3.4	-3.5	-0.2
9	35.4	43.5	36.0	37.0	3.7	-0.8	-2.0	-0.2	-2.3	-3.5	-3.5	-0.7
10	38.5	44.1	32.8	35.8	3.6	-0.8	-2.1	-0.3	-2.4	-3.5	-3.6	-0.8
11	42.0	45.4	28.6	34.5	4.3	-0.9	-2.2	-0.5	-2.6	-3.5	-3.6	-0.5
12	44.4	46.5	24.2	32.2	4.4	-1.0	-2.2	-0.6	-2.6	-3.6	-3.6	5.0
13	45.8	47.3	19.9	31.4	4.2	-1.0	-2.3	-0.6	-2.7	-3.6	-3.6	14.5
14	46.7	47.8	26.6	29.4	4.6	-0.8	-2.3	-0.7	-2.9	-3.6	-3.6	22.6
15	47.1	47.9	32.0	26.5	4.8	-0.9	-2.4	-0.8	-2.9	-3.6	-3.6	27.0
16	47.4	47.5	36.0		4.3	-0.3	-2.4	-0.9	-3.0	-3.6	-3.6	27.8
17	47.6	46.4	40.2	19.0	4.1	-0.4	-2.5	-0.8	-3.0	-3.5	-3.6	29.2
18	47.0	44.8	43.1	15.9	3.8	-0.5	-2.6	-0.5	-3.0	-3.5	-3.6	28.0
19	46.3	43.6	46.1	13.9	3.3	-0.6	-2.6	-0.7	-3.1	-3.5	-3.6	25.4
20	45.6	41.7	48.6	12.6	2.7	-0.8	-2.7	-0.5	-3.1	-3.3	-3.6	19.9
21	44.0	40.0	51.6	11.4	3.1	-1.1	-2.7	-0.6	-3.1	-3.4	-3.6	16.0
22	41.8	38.2	55.9	10.7	2.8	-1.3	-2.5	0.0	-3.1	-3.5	-3.5	14.6
23	38.8	36.0	58.4	9.9	3.0	-1.5	-1.9	-0.3	-3.1	-3.5	-3.5	14.0
24	34.7	33.8	59.3	9.3	3.0	-1.7	-1.1	-0.2	-3.1	-3.5	-3.3	17.8
25	31.3	31.8	59.2	8.9	4.9	-1.8	-0.4	0.0	-3.1	-3.4	-0.3	21.0
26	29.6	31.2	58.6	10.0	3.8	-1.9	-0.4	0.1	-3.1	-3.4	0.0	25.4
27	29.3	34.7	57.4	11.1	3.0	-1.8	3.2	1.1	-3.1	-3.4	0.7	22.8
28	28.6	37.7	55.9	11.9	2.5	-1.3	10.2	1.9	-3.2	-3.5	2.4	23.6
29	26.7		54.4	12.2	1.9	-1.1	12.1	4.0	-3.2	-3.5	3.5	24.3
30	25.0		52.8	11.0	2.1	-1.2	10.9	3.3	-3.2	-3.5	5.6	24.6
31	23.5		52.3		1.8		8.9	1.1		-3.5		21.6

DAILY RIVER STAGES.

Mobile River system (Tombigbee River Branch)—Black Warrior River, Cordova, Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		2.0	2.7	3.8	9.0	2.6	2.0	1.8	0.9	-2.5	0.0	3.2
2		4.4	2.7	8.0	11.2	3.6	2.0	1.7	0.7	-2.4	0.0	2.0
3		18.0	2.7	9.0	9.0	3.4	1.9	1.6	0.5	-2.4	0.0	1.7
4		14.0	2.5	6.5	7.0	2.9	1.8	1.4	0.4	-2.2	0.0	1.6
5		9.0	3.0	5.0	5.6	2.7	1.8	1.3	0.3	-2.0	0.2	1.4
6		12.0	4.4	4.3	4.7	2.5	1.7	1.3	0.1	-2.0	0.2	1.4
7		12.1	4.4	3.8	3.6	2.4	2.9	1.2	0.0	-2.0	0.4	1.4
8		9.0	4.0	3.5	2.9	2.2	3.9	1.2	-0.3	-2.0	0.5	1.2
9		8.9	5.5	3.1	2.6	2.9	2.9	1.1	-0.6	-1.8	0.5	1.2
10		8.8	4.6	2.9	2.4	11.6	2.6	1.1	-0.8	-1.8	0.6	1.2
11		8.3	4.4	2.8	2.2	6.0	2.5	1.0	-1.0	-1.8	0.6	1.1
12		6.0	5.4	2.7	2.1	3.5	2.4	1.0	-1.2	-1.8	0.8	1.1
13		5.5	4.5	2.5	2.0	2.8	2.4	1.0	-1.3	-1.8	1.0	1.1
14		13.5	3.7	3.3	2.0	2.7	2.3	1.0	-1.5	-1.9	1.0	1.2
15		11.0	3.0	3.8	1.9	2.6	2.1	0.9	-1.7	-1.9	1.0	2.4
16		8.0	3.8	3.5	1.8	2.6	2.1	0.9	-1.8	-1.9	1.1	2.8
17		5.8	10.3	3.1	1.8	2.9	2.1	0.8	-1.9	-1.9	1.1	2.7
18		5.0	8.3	2.9	1.7	3.6	2.0	1.3	-2.0	-1.0	1.1	2.7
19		4.5	11.6	2.7	1.6	3.6	2.0	1.0	-2.1	-1.0	1.1	2.7
20		4.1	16.5	2.4	1.6	3.5	2.0	1.0	-2.2	-1.0	1.0	2.6
21		3.8	12.6	2.3	1.8	3.1	2.0	0.9	-2.2	-1.0	1.0	2.4
22	3.0	3.5	8.5	2.1	2.4	2.8	3.0	2.1	-2.3	-1.0	1.0	2.4
23		3.0	6.6	2.5	2.0	2.7	3.5	1.9	-2.3	-1.0	1.0	2.4
24		3.0	6.0	2.4	2.0	2.6	3.3	1.6	-2.4	0.8	1.0	2.4
25		2.9	5.7	2.2	1.7	2.5	3.2	2.6	-2.4	0.6	1.0	2.4
26		2.6	5.0	2.0	1.6	2.4	3.0	2.4	-2.5	0.6	1.0	2.4
27		2.3	4.5	3.8	1.9	2.4	2.8	2.0	-2.5	0.4	1.0	2.3
28		2.0	4.3	6.5	1.8	2.2	2.7	1.5	-2.6	0.4	1.0	2.3
29		1.8	3.9	4.7	2.5	2.1	2.5	1.2	-2.6	0.2	1.2	2.3
30			3.5	6.0	2.4	2.0	2.3	1.0	-2.5	0.2	7.4	2.3
31			3.2		2.1		2.0	0.8		0.1		2.2

1897.

1	2.2	4.6	5.2	3.8	5.0	2.0						
2	2.2	7.8	5.0	8.0	4.4	2.0						
3	2.2	8.0	4.9	7.0	4.0	1.8						
4	3.2	7.0	4.9	7.0	4.0	1.8						
5	4.0	5.5	4.8	6.5	3.7	2.0						
6	3.8	7.0	7.6	6.5	3.4	2.0						
7	3.5	8.0	32.0	6.2	3.3	2.0						
8	3.4	7.0	28.0	5.8	3.0	1.9						
9	3.4	8.2	15.0	15.0	2.6	1.9						
10	3.2	7.6	10.4	16.0	2.5	1.8						
11	3.2	6.6	11.4	10.0	4.0	1.8						
12	3.2	9.0	22.5	8.0	7.0	1.7						
13	3.1	8.0	30.0	6.5	7.1	1.6						
14	3.4	6.6	25.0	5.6	6.0	1.6						
15	9.6	6.0	18.0	8.0	5.2	1.4						
16	6.6	5.7	20.0	6.0	4.0	1.4						
17	5.4	5.3	22.0	5.0	3.6	1.3						
18	11.7	5.0	15.0	4.8	3.4	1.2						
19	9.6	4.6	12.0	4.6	3.2	1.2						
20	7.6	4.4	20.0	4.4	3.0	1.1						
21	9.0	4.4	16.0	4.2	3.0	1.1						
22	6.8	4.4	10.0	4.0	2.8	1.0						
23	5.7	4.6	12.6	4.0	2.7	1.0						
24	5.0	6.6	9.0	3.8	2.6	1.0						
25	4.2	6.0	8.0	3.8	2.6	0.8						
26	4.0	6.0	6.4	3.6	2.6	0.8						
27	4.0	5.6	5.6	3.6	2.4	0.8						
28	3.8	5.4	5.0	3.4	2.4	0.8						
29	3.7		4.5	3.4	2.2	0.6						
30	3.6		4.0	7.0	2.2	0.6						
31	3.6		4.0		2.0							

DAILY RIVER STAGES.

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Mobile River system (Tombigbee River branch)—Black Warrior River, Tuscaloosa, Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.4	7.9	6.9	10.6	18.2	4.9	1.9	0.5	0.4	-0.5	-0.8	7.7
2	10.3	8.5	7.7	14.8	33.3	4.3	1.7	0.8	0.2	-0.6	-0.8	6.3
3	8.9	22.0	7.4	23.0	37.2	3.5	1.4	1.3	0.1	-0.7	-0.4	4.6
4	7.6	33.1	6.7	23.5	30.9	5.4	1.5	0.9	0.0	-0.2	-0.4	3.4
5	6.5	30.0	6.1	19.8	26.4	5.2	1.3	0.5	-0.1	0.8	-0.3	2.6
6	5.7	30.7	6.6	16.7	21.9	4.3	1.1	0.4	-0.1	0.7	-0.2	2.0
7	5.1	35.9	10.2	14.3	17.9	3.6	1.3	0.5	-0.2	0.7	-0.2	1.7
8	5.2	35.1	12.0	12.5	13.9	3.2	2.2	0.6	-0.3	0.4	-0.2	1.5
9	5.8	36.2	14.9	11.2	10.8	6.6	8.4	0.7	-0.4	0.1	-0.2	1.2
10	6.5	36.5	13.7	10.0	8.6	8.1	7.0	0.6	-0.4	-0.1	-0.2	1.1
11	6.6	33.6	12.5	9.0	7.1	18.3	5.4	0.5	-0.4	-0.3	-0.3	0.9
12	6.2	29.4	14.0	8.3	6.1	15.1	3.9	0.4	-0.5	-0.3	-0.2	0.8
13	5.8	26.0	16.1	7.6	5.3	10.7	3.0	0.4	-0.5	-0.5	-0.2	0.8
14	5.3	27.4	15.3	7.9	4.8	7.6	2.5	0.3	-0.6	-0.5	-0.1	0.8
15	4.8	33.2	13.6	11.6	6.1	5.6	2.2	0.3	-0.6	-0.5	-0.1	1.2
16	4.9	31.0	13.9	13.9	5.4	4.3	2.1	0.3	-0.6	-0.4	-0.1	1.2
17	6.0	27.3	22.3	12.4	4.6	4.7	2.1	0.1	-0.6	-0.6	0.3	1.2
18	8.6	23.6	27.7	10.6	3.9	4.2	2.4	0.4	-0.6	-0.6	0.5	1.6
19	9.1	20.1	29.7	9.0	3.4	5.2	2.5	0.5	-0.6	-0.8	0.5	1.9
20	8.5	17.0	37.7	7.8	3.0	6.0	2.2	0.4	-0.6	-0.8	0.4	1.7
21	7.9	14.4	37.9	6.9	2.9	5.3	2.2	0.3	-0.6	-0.8	0.4	1.5
22	8.8	12.2	33.5	6.1	2.8	4.9	1.9	0.3	-0.6	-0.8	0.4	1.3
23	22.5	10.3	29.1	5.6	2.9	4.5	1.7	0.2	-0.4	-0.8	0.4	1.2
24	29.3	9.1	25.8	5.7	2.9	4.2	2.1	1.1	-0.4	-0.8	0.4	1.0
25	26.5	8.6	23.5	5.8	2.9	4.0	2.5	0.9	-0.6	-0.8	0.4	0.9
26	22.4	8.3	21.3	5.3	3.0	3.4	2.2	0.8	-0.6	-0.8	0.4	0.8
27	18.5	7.9	18.7	5.3	3.7	2.9	1.7	0.8	-0.7	-0.8	0.1	0.7
28	14.9	7.4	16.3	10.5	3.6	2.7	1.3	1.3	-0.8	-0.8	0.1	0.6
29	12.1	7.0	14.3	16.1	6.5	2.5	0.9	1.3	-0.7	-0.8	0.3	0.5
30	10.2	.....	12.7	14.2	6.5	2.2	0.8	0.9	-0.5	-0.8	1.0	0.5
31	8.9	.....	11.4	.....	5.8	.....	0.6	0.6	.....	-0.8	.....	0.5

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.3	3.9	11.1	13.9	9.5	1.8	-0.1	1.4	0.6	-1.6	-1.4	-1.3
2	0.5	6.0	9.6	15.3	9.9	1.7	-0.2	1.1	1.0	-1.7	-1.3	-1.1
3	0.4	11.5	8.6	22.2	9.2	1.7	-0.2	0.9	1.0	-1.7	-1.3	-0.5
4	0.9	12.6	8.7	21.1	7.7	2.0	-0.2	0.6	0.9	-1.7	-1.3	1.3
5	1.2	11.7	10.1	22.0	6.2	2.0	0.0	0.5	0.8	-1.8	-1.3	13.1
6	1.1	12.4	16.3	26.9	5.4	2.6	1.6	0.4	0.6	-1.9	-1.3	14.2
7	1.4	16.2	51.4	25.3	4.7	3.4	3.4	0.2	0.5	-1.8	-1.3	10.7
8	2.6	18.7	54.8	22.1	4.2	2.9	3.9	0.2	0.5	-1.8	-1.3	7.4
9	2.6	21.0	51.6	21.3	3.9	2.2	3.7	1.1	0.4	-1.9	-1.2	5.1
10	2.3	19.8	44.7	29.3	3.5	1.8	3.0	2.1	0.4	-1.9	-1.1	3.7
11	2.0	17.9	40.5	29.4	3.2	1.6	2.5	3.2	0.3	-1.9	-1.1	3.0
12	1.8	23.4	42.5	25.5	3.7	1.4	2.4	3.2	0.2	-1.9	-1.1	2.7
13	1.5	25.9	48.7	21.6	11.4	1.2	2.2	2.7	0.1	-1.9	-1.2	2.6
14	1.3	23.8	51.0	18.1	20.4	1.1	1.9	2.3	0.1	-1.9	-1.2	3.0
15	1.2	20.3	48.6	16.3	20.5	0.9	1.5	1.6	0.1	-1.9	-1.2	3.5
16	8.2	17.0	45.2	18.4	16.6	0.8	1.2	1.3	0.1	-1.9	-1.3	4.1
17	9.7	14.0	47.2	18.3	12.7	0.7	1.0	1.0	0.0	-1.9	-1.3	4.1
18	13.1	11.7	46.7	15.9	9.8	0.6	1.5	0.7	0.0	-1.9	-1.3	3.8
19	19.3	10.0	42.9	13.7	7.7	1.3	3.5	0.5	-0.4	-1.9	-1.4	3.5
20	18.7	8.8	42.6	11.9	6.3	1.4	12.5	1.5	-0.7	-1.9	-1.4	3.8
21	17.4	8.1	44.5	10.4	5.4	1.1	14.5	1.8	-0.9	-1.9	-1.4	6.7
22	18.6	8.3	41.5	9.2	4.7	0.8	11.3	1.6	-1.1	-1.8	-1.4	19.6
23	16.5	11.0	37.7	8.3	4.1	0.5	8.4	1.3	-1.2	-1.6	-1.4	31.0
24	13.3	20.2	35.7	7.4	3.7	0.3	6.6	1.1	-1.3	-1.6	-1.4	30.0
25	10.6	21.2	32.4	6.8	3.4	0.2	4.8	1.3	-1.2	-1.6	-1.4	24.1
26	8.6	19.0	28.9	6.4	3.1	0.2	3.5	1.0	-1.4	-1.6	-1.4	19.0
27	7.2	16.2	25.6	5.9	2.9	0.1	2.7	0.8	-1.4	-1.6	-1.4	15.7
28	6.0	13.3	23.1	5.5	2.6	0.0	2.9	0.6	-1.4	-1.6	-1.3	13.1
29	5.1	.....	20.3	5.1	2.3	0.0	2.1	0.5	-1.5	-1.6	-1.2	11.0
30	4.4	.....	17.5	5.9	2.1	-0.1	1.8	0.5	-1.5	-1.6	-1.2	9.4
31	3.8	.....	15.0	.....	2.0	.....	1.6	0.3	.....	-1.6	.....	8.0

Mobile River system (Tombigbee River branch)—Black Warrior River, Tuscaloosa, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.1	21.7	3.7	25.5	11.3	0.2	0.7	2.5	1.2	-0.6	0.9	5.4
2	6.3	18.3	3.8	22.4	9.8	0.1	0.4	2.0	0.8	-0.7	0.7	5.5
3	5.5	14.9	4.0	18.5	8.7	0.2	0.3	2.5	0.7	-0.8	0.6	5.4
4	5.0	12.1	4.0	15.3	7.7	0.3	0.5	2.8	0.3	-0.9	0.4	5.0
5	4.4	10.1	4.0	20.8	6.9	0.3	0.2	3.0	0.0	-1.0	0.0	4.7
6	4.2	9.4	3.9	38.7	6.2	0.2	0.1	3.9	-0.1	-0.9	0.3	4.5
7	4.1	8.9	3.6	38.6	5.6	0.0	-0.2	3.4	-0.3	-0.9	0.5	5.0
8	4.2	8.4	3.3	32.8	5.0	-0.1	0.0	3.1	-0.2	-0.7	0.4	5.0
9	4.2	7.8	3.1	27.7	4.5	-0.3	0.1	4.0	0.0	-0.3	0.4	4.7
10	4.0	7.3	3.0	23.0	4.2	-0.4	0.1	6.2	0.2	2.0	0.5	4.2
11	4.0	6.7	2.9	19.5	3.9	-0.5	0.1	12.2	0.4	3.3	0.5	3.7
12	4.2	6.3	2.8	17.0	3.5	-0.6	-0.1	14.1	0.2	2.6	0.4	3.3
13	6.7	6.2	2.8	15.0	3.2	-0.7	-0.1	10.6	0.0	2.0	0.5	3.0
14	9.7	6.1	3.0	12.9	2.9	-0.6	-0.1	7.3	-0.3	1.4	0.8	2.8
15	12.0	5.9	4.8	11.6	2.6	-0.5	-0.1	5.0	-0.3	1.0	1.1	2.6
16	11.7	5.4	8.0	10.8	2.3	-0.4	-0.1	3.5	-0.4	0.8	1.3	2.5
17	15.0	5.0	15.4	9.6	2.1	-0.5	-0.2	2.6	-0.6	0.4	1.5	2.4
18	15.5	4.9	14.1	8.6	2.0	-0.6	0.0	1.9	-0.7	0.8	1.6	2.1
19	14.3	4.8	11.9	8.1	1.6	-0.3	1.3	1.5	-0.7	0.8	1.9	4.4
20	24.5	4.8	10.1	27.8	1.4	-0.2	1.3	1.5	-0.8	1.2	2.2	18.8
21	33.5	4.7	8.8	33.1	1.2	0.0	1.1	1.1	-0.9	3.1	2.5	23.9
22	31.4	4.5	7.8	28.4	1.1	0.1	0.9	1.3	-0.5	3.8	4.0	21.3
23	28.5	4.3	7.0	23.8	1.0	0.2	0.5	1.2	-0.6	4.1	8.6	17.4
24	30.4	4.0	6.3	22.7	0.9	0.3	1.1	0.9	-0.7	4.8	11.7	13.3
25	30.1	3.8	6.0	24.0	0.8	0.2	2.0	0.5	-0.8	4.3	11.6	10.5
26	42.5	3.6	6.0	22.6	0.6	0.1	2.5	1.1	-0.9	3.9	9.5	8.6
27	43.5	3.6	5.5	19.7	0.4	1.3	2.0	1.0	-0.9	2.9	7.4	7.3
28	39.4	3.7	5.1	17.1	0.4	1.1	1.8	1.0	-0.8	2.3	5.9	6.2
29	33.8		5.2	15.0	0.5	0.5	2.0	1.3	-0.8	2.0	5.5	5.6
30	28.5		13.4	13.0	0.4	0.7	2.6	1.5	-0.6	1.4	5.3	5.0
31	24.9		25.7		0.3		2.9	1.6		1.1		4.7

1899.

1	4.6	26.1	37.7	30.4	7.9	2.0	0.1	6.5	1.2	-1.5	-1.0	4.8
2	3.9	29.5	32.0	29.2	7.0	1.5	0.1	4.9	0.7	-1.6	-1.0	3.5
3	4.0	27.0	27.7	24.8	6.3	1.2	0.3	3.4	0.6	-1.8	-1.0	2.8
4	4.0	29.0	24.1	22.0	5.8	1.0	-0.1	2.7	0.2	-1.8	-1.0	2.0
5	4.1	45.5	21.0	23.2	5.3	1.0	-0.1	2.0	-0.2	-1.5	-1.0	1.5
6	12.6	50.6	20.8	22.6	4.8	0.9	-0.3	2.0	-0.2	-1.5	-1.0	1.2
7	24.5	51.4	19.5	23.3	4.4	1.0	-0.2	1.8	-0.4	-1.5	-1.0	1.0
8	31.0	51.7	16.9	33.9	4.4	0.8	-0.3	1.3	-0.4	-1.3	-1.0	0.9
9	35.4	48.6	14.4	34.0	7.6	0.4	-0.4	1.2	-0.5	-1.3	-1.0	0.6
10	38.5	43.1	12.9	30.8	6.5	0.4	-0.4	1.1	-0.7	-1.0	-1.0	0.6
11	42.0	37.8	11.9	27.0	5.1	0.5	-0.4	2.0	-0.7	-0.8	-1.0	2.2
12	44.4	32.8	11.3	23.6	4.3	0.5	-0.5	1.7	-0.8	-0.7	-1.0	23.5
13	45.8	28.8	10.0	21.2	4.2	0.5	-0.6	1.3	-0.7	-0.7	-1.0	39.5
14	46.7	25.7	28.8	17.2	4.3	0.5	-0.6	0.9	-0.7	-0.9	-1.0	35.7
15	47.1	22.9	44.5	14.9	4.7	0.5	-0.7	0.6	-0.8	-0.9	-1.0	26.5
16	47.4	21.0	59.3	13.0	4.3	0.7	-0.7	0.4	-0.8	-1.0	-1.0	20.6
17	47.6	19.9	60.3	11.6	3.7	0.6	-0.7	0.3	-0.9	-1.1	-1.0	15.2
18	47.0	20.1	57.7	10.5	3.3	0.4	-0.7	0.3	-0.9	-1.1	-1.0	10.8
19	46.3	20.8	52.4	9.8	2.8	0.3	-0.7	0.6	-0.9	-1.2	-1.0	8.0
20	45.6	20.6	49.3	9.6	2.7	0.2	-0.7	0.6	-0.9	-1.1	-1.0	8.1
21	44.0	19.6	46.8	9.5	3.7	0.1	-0.6	0.7	-0.9	-1.1	-0.9	9.6
22	41.8	18.5	41.6	8.7	3.8	0.4	-0.5	1.5	-1.0	-0.8	-0.9	10.8
23	38.8	22.7	36.8	8.6	3.3	-0.1	-0.2	2.6	-1.0	-0.7	-0.3	10.6
24	34.7	23.1	33.0	11.3	3.1	-0.1	0.6	2.5	-1.0	-0.7	0.2	22.0
25	31.3	20.9	29.5	13.6	2.7	-0.1	4.9	2.6	-1.0	-0.9	0.9	29.0
26	29.6	18.5	26.5	13.2	2.3	0.2	7.6	2.3	-1.0	-0.9	2.6	25.9
27	29.3	23.5	24.3	12.6	2.0	0.2	7.4	2.1	-1.0	-1.0	4.5	21.0
28	28.6	39.0	22.3	11.4	1.7	0.2	8.0	1.9	-1.2	-0.6	10.5	17.1
29	26.7		21.2	10.0	1.5	0.2	9.5	1.6	-1.2	-0.7	9.5	15.8
30	25.0		19.3	8.9	1.6	0.2	9.3	1.5	-1.4	-1.0	6.7	14.6
31	23.5		18.1		2.5		8.5	1.1		-1.0		12.5

DAILY RIVER STAGES.

257

Ohio River system—Ohio River, Pittsburg, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.4	4.3	6.7	19.4	4.2	5.6	3.9	16.4	5.8	12.4	5.8	10.0
2	7.4	5.5	8.9	17.1	4.2	5.8	3.1	11.4	5.5	11.3	5.8	8.0
3	6.7	11.2	7.8	15.3	5.4	6.5	5.1	9.9	5.9	9.8	5.9	6.2
4	6.1	12.8	6.2	13.4	5.9	6.0	5.5	8.2	5.8	7.8	5.5	5.0
5	Frozen.	12.9	5.0	11.8	5.5	5.6	6.4	6.9	5.5	6.2	6.5	4.2
6		11.7	4.6	9.8	4.8	5.5	6.0	5.5	5.9	4.9	7.0	4.1
7	2.5	12.1	4.5	8.8	4.4	5.6	6.9	4.3	6.0	4.0	8.6	4.0
8	2.5	12.9	5.1	8.4	3.8	5.9	6.9	4.2	6.1	3.5	7.1	3.8
9	2.8	10.9	6.2	7.8	3.2	6.4	5.9	3.6	6.1	3.0	5.4	4.1
10	3.3	9.3	7.6	6.9	2.9	5.9	5.8	3.5	6.1	6.7	4.5	9.3
11	3.3	8.0	7.1	6.6	2.7	6.4	6.6	3.5	6.0	6.5	4.1	11.9
12	2.9	6.6	6.9	8.1	3.0	7.0	5.5	3.9	6.1	5.8	4.4	10.1
13	2.8	6.0	5.2	9.9	4.2	6.7	5.0	4.6	6.0	5.5	4.9	8.1
14	2.7	7.8	4.5	10.0	6.1	5.7	6.7	5.4	5.9	6.6	5.4	7.0
15	2.4	12.5	4.3	9.9	5.9	6.2	6.2	4.6	5.9	6.5	4.9	6
16	2.2	11.4	3.9	9.2	5.9	5.9	6.9	3.2	6.1	7.7	4.5	5.5
17	2.1	9.1	4.0	8.2	5.1	6.4	11.0	2.9	6.3	7.4	4.2	4.9
18	2.0	7.6	4.8	7.5	5.5	6.1	9.9	2.5	6.2	6.3	4.0	4.5
19	2.0	6.4	6.3	6.8	5.7	6.4	6.0	3.7	6.4	5.5	4.1	4.4
20	2.1	5.4	11.3	5.9	5.7	6.8	4.3	5.1	5.6	4.8	3.7	4.1
21	2.3	4.4	11.8	5.9	6.1	6.5	3.8	5.8	5.7	4.4	3.5	3.9
22	2.5	3.0	9.2	6.8	6.3	5.9	4.0	5.6	6.7	5.9	3.5	3.5
23	3.1	2.7	10.2	6.1	6.5	6.1	14.4	5.9	5.8	5.1	4.2	3.3
24	3.7	3.5	9.8	5.2	6.7	5.8	14.8	5.9	6.1	4.9	5.9	3.1
25	6.4	3.9	8.2	5.0	6.6	6.0	18.6	6.2	5.3	7.9	6.5	2.4
26	9.7	4.1	8.2	5.2	6.3	9.0	21.8	6.4	5.4	7.9	5.9	2.2
27	9.8	4.0	12.8	5.8	6.0	7.3	14.2	6.2	5.6	6.0	5.6	2.0
28	7.9	4.3	14.4	5.4	6.5	6.0	16.6	6.1	5.6	4.7	5.9	2.0
29	6.5	4.6	13.0	4.8	6.4	4.9	14.3	6.0	5.9	3.9	8.1	2.1
30	5.5		17.8	4.6	7.9	4.2	11.3	5.7	5.9	3.4	10.9	2.3
31	4.9		20.6		6.4		14.3	5.7		3.0		2.8

1897.

1	3.3	2.7	6.0	6.4	3.6	2.3	6.2	3.8	5.6	6.0	5.9	6.6
2	4.0	2.6	5.4	5.9	4.5	2.0	6.0	3.9	5.9	5.9	5.8	5.1
3	5.1	2.8	5.6	5.4	7.6	1.7	6.0	3.6	5.8	5.8	5.8	4.1
4	5.2	2.9	8.0	4.8	9.9	1.7	6.5	3.0	5.9	5.7	5.8	3.7
5	5.2	2.9	11.5	4.5	8.6	1.8	6.3	5.3	6.0	5.6	5.8	3.5
6	6.9	3.8	16.5	4.6	7.8	1.8	4.3	7.0	5.8	5.5	5.8	12.1
7	7.3	7.8	18.7	5.7	8.2	1.7	6.1	6.3	5.7	5.3	6.0	11.0
8	6.3	12.9	14.9	5.7	7.5	2.3	6.0	5.5	5.3	5.3	5.9	8.4
9	11.1	11.1	12.4	6.5	6.3	2.5	6.2	6.0	5.4	5.5	6.0	6.5
10	4.5	10.5	11.8	13.2	5.4	3.2	6.1	5.3	5.5	5.4	5.0	5.3
11	4.6	8.2	13.6	13.5	5.0	3.1	5.7	6.0	5.3	5.7	6.6	5.0
12	4.2	7.6	13.9	10.9	6.5	2.6	6.3	5.3	5.2	5.5	6.0	5.2
13	3.8	10.5	12.3	9.4	7.4	2.5	6.1	6.3	5.3	5.7	6.0	5.6
14	3.0	10.6	11.3	8.5	12.8	5.5	6.1	6.0	5.6	5.5	5.9	5.7
15	2.6	9.8	11.1	8.9	14.7	5.3	6.3	6.1	5.5	5.8	6.2	6.3
16	2.9	9.5	9.4	12.3	11.3	6.0	6.1	5.3	5.6	5.7	5.8	12.3
17	3.0	9.0	8.1	11.1	8.7	6.2	6.0	5.0	5.6	5.6	6.8	13.7
18	3.6	8.3	7.3	9.5	7.2	6.3	5.4	6.9	5.8	5.7	6.8	11.4
19	5.4	8.8	7.6	8.2	6.0	5.5	5.8	5.0	5.8	5.6	6.0	10.7
20	6.5	8.1	11.0	7.1	5.2	6.4	6.5	4.0	5.9	5.7	4.9	10.9
21	5.8	7.6	12.9	6.2	4.6	5.6	5.5	3.5	5.8	5.6	4.6	9.0
22	5.1	10.1	12.1	5.6	4.1	5.8	6.5	4.8	5.8	5.7	3.3	11.7
23	5.2	24.3	11.6	4.9	3.8	6.7	6.8	5.5	5.6	5.6	2.8	11.3
24	4.2	28.9	11.4	4.5	3.6	4.9	8.1	5.4	5.7	5.6	5.0	8.7
25	2.3	19.0	12.8	4.2	3.6	5.5	6.0	6.1	5.8	5.6	5.4	6.0
26	2.8	12.0	12.8	4.0	3.4	4.7	5.1	5.3	6.5	5.6	5.7	5.0
27	2.7	9.0	11.3	4.2	3.2	6.1	4.5	5.3	5.3	5.6	6.0	4.0
28	2.5	7.6	10.0	4.6	3.0	5.2	4.7	5.3	6.2	5.7	10.0	4.0
29	2.4		8.9	4.3	2.5	4.9	5.5	6.1	5.9	5.8	10.7	4.0
30	2.7		7.9	4.0	2.4	5.3	5.4	5.5	5.7	5.7	8.5	3.6
31	2.4		7.0		2.5		4.7	5.6		5.6		3.4

DAILY RIVER STAGES.

Ohio River system—Ohio River, Pittsburg, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.0	6.0	5.2	13.1	5.7	3.9	6.0	4.9	6.0	5.7	4.2	3.2
2	4.6	4.8	4.8	10.6	4.8	3.4	5.3	6.0	6.0	5.9	3.8	3.2
3	4.4	3.8	4.6	9.1	4.2	4.5	6.1	6.0	5.8	5.8	3.5	3.0
4	3.8	2.5	4.4	8.0	3.9	5.0	5.3	5.8	5.5	5.8	5.6	3.0
5	3.4	3.0	4.2	7.0	3.8	4.0	5.3	5.3	5.7	5.8	5.1	3.9
6	3.4	3.0	4.1	6.3	3.4	4.8	5.2	8.0	5.6	5.6	5.7	5.8
7	4.7	3.4	3.9	5.5	3.2	5.8	5.3	7.3	5.7	6.7	6.6	6.1
8	8.8	3.5	3.7	5.1	5.4	5.8	5.0	7.0	6.0	6.0	7.2	5.3
9	9.4	3.8	3.9	4.9	8.1	5.7	5.7	4.8	6.3	6.7	6.9	4.4
10	9.3	4.1	4.2	4.8	7.5	5.9	6.0	9.0	6.5	6.2	5.9	3.0
11	13.9	5.6	4.9	4.7	6.0	5.8	5.6	12.4	6.1	6.0	9.5	2.4
12	13.6	10.0	5.5	4.7	5.0	5.8	5.4	12.9	6.0	5.9	15.6	2.2
13	14.3	14.0	6.8	4.3	4.5	6.0	5.4	9.5	6.0	6.0	13.2	2.3
14	17.3	14.4	8.0	4.1	5.3	6.4	5.5	9.3	5.5	5.7	10.8	2.8
15	15.8	12.4	8.6	4.0	5.4	6.9	5.5	6.2	6.0	6.4	9.1	2.5
16	15.8	11.1	7.9	5.8	5.4	3.9	5.5	4.8	5.8	6.2	8.0	2.2
17	17.8	9.0	7.0	9.5	9.9	2.9	5.8	3.5	5.8	6.0	7.2	2.2
18	14.2	9.3	10.2	8.4	13.5	4.2	5.4	2.9	5.8	6.4	6.3	2.4
19	11.2	7.6	11.4	6.5	9.5	6.3	5.3	3.3	5.7	6.0	5.3	2.9
20	9.3	9.8	9.3	5.2	8.0	6.5	6.5	13.3	5.4	6.2	5.2	5.5
21	10.6	11.0	14.6	4.6	9.0	4.8	5.5	10.9	5.8	7.0	6.5	12.5
22	11.7	12.9	19.5	4.2	9.1	5.5	6.2	8.9	5.8	5.7	7.6	15.2
23	12.7	12.1	24.9	3.9	8.1	6.4	5.3	6.1	5.8	15.6	6.4	14.8
24	19.7	10.2	28.5	4.3	9.9	5.6	5.3	5.0	5.8	12.2	5.6	15.2
25	16.5	8.6	22.5	7.1	8.7	5.9	5.4	3.4	5.8	10.7	5.0	13.6
26	13.8	7.6	20.3	13.5	7.9	5.4	6.1	3.3	5.8	8.7	4.5	10.8
27	13.8	6.4	15.0	13.4	7.1	5.5	6.0	5.8	6.0	7.1	4.0	8.9
28	11.9	5.6	11.4	10.6	6.1	5.8	6.0	6.1	5.1	6.3	3.5	7.7
29	9.9	-----	10.2	8.2	5.6	5.1	6.2	5.8	5.2	5.9	3.2	5.9
30	8.1	-----	17.4	6.6	4.9	6.7	6.2	6.0	5.0	5.1	3.2	5.0
31	7.0	-----	17.5	-----	4.3	-----	6.0	6.0	-----	4.5	-----	5.1

1899.

1	6.1	2.9	12.7	12.0	3.2	5.9	5.8	6.0	6.0	6.2	6.0	6.2
2	6.9	2.5	10.7	10.5	2.9	5.0	5.0	6.0	6.2	5.5	6.5	6.0
3	4.9	2.3	10.6	9.0	3.0	5.2	5.3	4.9	2.6	5.5	7.1	6.0
4	4.3	3.7	10.1	7.8	4.0	5.0	4.7	6.0	6.3	5.5	6.8	6.2
5	7.8	15.3	11.7	6.8	4.7	4.2	5.0	5.8	5.8	5.5	5.5	6.5
6	12.0	11.0	12.1	6.2	4.1	3.2	5.0	5.6	5.8	5.2	5.5	6.2
7	14.5	8.0	18.1	5.9	3.5	3.3	5.2	4.5	5.7	5.5	4.8	5.8
8	16.6	6.2	13.3	7.8	3.2	4.0	5.7	5.2	5.5	5.4	4.5	6.0
9	12.1	4.8	10.5	11.2	3.3	5.0	4.7	5.9	6.0	5.5	6.2	6.0
10	9.5	3.1	9.0	11.4	7.6	5.8	6.5	5.8	6.7	5.2	6.0	5.5
11	7.5	2.8	9.1	10.2	6.4	5.9	6.2	6.2	6.2	5.8	5.8	5.8
12	6.2	2.3	9.0	8.9	5.1	6.2	6.0	5.0	7.6	5.5	5.5	6.6
13	5.4	2.5	8.2	8.1	5.5	6.3	5.8	6.0	5.0	5.5	6.2	12.0
14	7.0	2.8	7.8	8.4	5.4	6.4	4.8	5.2	4.8	5.2	6.7	13.8
15	15.0	2.4	7.2	8.3	4.5	5.3	4.8	5.8	5.7	6.0	6.1	11.5
16	16.5	2.3	6.6	7.8	3.8	7.2	6.0	6.1	5.5	6.1	5.2	9.9
17	13.8	2.3	6.6	7.2	3.7	6.7	6.5	5.8	5.5	6.0	6.2	8.1
18	12.1	2.7	6.8	6.7	9.6	6.2	6.8	6.0	6.0	5.8	6.8	6.7
19	10.5	3.3	6.6	6.2	18.1	4.5	6.0	5.8	6.0	5.8	5.5	5.9
20	8.5	7.1	10.9	5.5	13.7	5.5	4.5	5.5	6.0	5.5	6.5	7.5
21	6.4	10.6	12.7	5.1	9.9	5.2	3.6	5.0	5.0	5.8	6.8	12.8
22	6.5	12.7	11.0	4.6	7.4	5.8	2.8	5.2	5.0	5.8	6.2	11.8
23	5.9	14.7	9.3	4.2	6.2	6.9	2.8	5.3	5.5	5.8	5.5	9.8
24	5.6	13.8	10.0	3.8	5.1	5.5	4.0	5.2	5.9	5.8	6.0	8.0
25	6.8	10.8	11.4	3.5	4.2	5.5	5.5	5.0	6.0	5.6	7.0	8.0
26	10.2	8.8	9.6	4.0	3.6	4.8	6.3	5.0	5.8	5.3	5.8	8.3
27	9.2	12.2	8.7	4.2	3.2	5.5	6.2	6.4	5.8	5.5	5.8	6.8
28	7.7	13.9	7.9	4.0	3.8	6.3	6.0	5.3	5.7	5.7	4.8	5.5
29	5.7	-----	14.2	3.6	3.7	5.0	5.2	5.8	5.8	5.9	5.5	3.8
30	7.2	-----	19.2	3.3	7.0	6.5	6.2	5.0	6.3	5.8	6.3	4.1
31	3.3	-----	14.0	-----	7.7	-----	5.2	5.8	-----	5.8	-----	2.5

122.0 at 11 a. m.

DAILY RIVER STAGES.

259

Ohio River system—Ohio River, Herrs Island Dam, Pennsylvania.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1				14.0	6.5	5.0	7.2	5.3	6.2	5.8	6.1	4.5
2				11.7	5.7	4.6	5.7	5.7	6.1	6.1	5.5	4.3
3				9.8	4.7	5.0	6.4	5.9	5.8	6.0	5.3	4.1
4				9.1	5.0	5.9	5.8	5.8	5.8	5.8	6.6	4.3
5				8.3	4.8	4.4	5.4	5.3	5.7	5.8	6.0	5.0
6				7.4	4.5	5.1	5.8	7.6	5.5	5.8	6.6	6.7
7				6.7	4.5	6.0	5.5	7.3	5.9	5.7	8.0	7.0
8				6.2	7.3	5.7	5.6	5.5	6.2	6.2	10.4	6.5
9				5.9	8.8	5.8	6.4	5.3	6.4	6.7	9.8	5.6
10				5.7	7.9	6.0	6.2	8.8	6.5	6.7	8.7	3.9
11				5.5	6.6	6.0	5.6	11.8	6.5	6.3	12.8	3.4
12				5.4	5.7	5.8	5.5	12.1	6.0	6.1	18.8	3.3
13				5.2	5.4	6.2	5.5	9.0	6.0	6.2	16.0	3.3
14				4.8	6.7	7.1	5.7	8.8	5.2	6.2	13.4	3.7
15				4.7	7.0	7.7	6.0	6.2	5.8	6.1	11.6	4.0
16				6.0	6.8	5.1	5.6	5.0	5.7	6.2	10.3	3.6
17				9.4	11.3	3.8	5.8	3.8	5.8	6.4	9.2	3.7
18				8.3	13.5	4.7	6.1	3.1	6.0	6.7	8.3	3.9
19				6.6	9.7	6.9	6.0	3.7	5.9	6.7	7.4	4.4
20				5.6	8.3	7.8	6.5	15.0	5.6	6.9	6.8	6.6
21				5.0	11.0	5.8	5.0	12.6	6.0	7.7	7.6	14.0
22				4.7	11.0	5.8	6.2	9.9	5.9	7.7	8.3	17.2
23				4.6	10.3	6.7	5.5	7.7	6.0	16.0	7.4	17.4
24				5.2	11.2	6.0	5.8	6.0	6.0	13.8	6.8	18.0
25				8.6	10.0	6.2	5.5	4.9	6.0	13.1	6.4	16.0
26				14.7	9.3	5.8	6.2	4.5	6.0	11.4	5.8	13.4
27				14.0	8.6	5.7	5.9	7.3	6.2	9.6	5.4	10.7
28				11.2	7.7	6.1	5.9	7.4	5.4	8.5	4.8	9.5
29				8.8	7.0	5.8	6.4	6.5	5.6	8.0	4.5	7.7
30				7.5	6.2	7.7	6.3	6.5	5.2	7.4	4.4	6.7
31					5.6		6.1	5.7		6.7		7.0

1899.

1	8.1	3.5	14.1	14.1	4.6	8.7	6.2	6.4	6.3	6.5	6.1	6.3
2	9.1	3.0	12.6	12.4	4.4	7.1	5.1	6.4	6.4	6.3	6.7	6.1
3	6.8	3.4	12.6	10.8	4.5	6.7	5.7	5.1	4.0	6.3	7.7	6.6
4	6.6	4.6	11.9	9.6	5.9	6.0	5.0	6.6	6.5	6.5	7.3	6.7
5	9.4	13.2	13.9	8.5	6.8	5.0	5.6	5.9	6.4	6.4	6.1	7.0
6	13.8	11.1	21.9	8.0	5.9	4.1	5.1	6.0	6.0	6.3	6.0	7.2
7	16.1	8.5	19.4	7.8	5.3	4.4	5.7	5.4	5.9	6.2	5.6	6.9
8	17.2	7.0	15.5	9.9	4.8	4.2	6.3	6.4	6.1	6.1	5.3	6.4
9	13.2	6.2	12.5	13.8	4.8	5.5	5.3	6.0	6.2	5.9	6.6	6.3
10	10.7	5.1	10.8	13.8	7.8	6.0	6.9	5.8	6.7	5.8	6.4	6.4
11	8.7	4.7	10.5	12.4	7.0	5.5	6.6	6.6	6.3	5.8	6.0	6.6
12	7.6	4.5	10.1	10.8	6.1	6.0	6.4	5.2	7.5	6.1	5.7	7.1
13	6.7	4.9	9.4	10.2	6.4	6.0	5.9	6.4	5.2	6.1	6.1	13.9
14	8.0	4.6	9.2	11.0	6.5	6.1	5.6	5.8	4.7	6.0	6.9	15.5
15	16.6	4.4	8.9	11.0	5.9	5.1	5.1	6.3	5.7	6.1	6.0	13.4
16	18.5	4.3	8.3	10.1	5.5	6.6	6.2	5.9	5.9	6.1	5.4	11.6
17	16.2	4.5	8.3	9.4	5.4	6.1	7.0	5.3	5.6	6.1	6.5	9.5
18	14.4	4.5	8.8	8.8	10.5	6.2	7.4	5.5	6.0	6.1	7.4	8.1
19	12.4	4.4	8.7	8.1	19.7	4.6	8.1	5.6	5.9	6.0	7.4	7.3
20	10.3	7.6	13.5	7.5	15.6	5.3	6.3	5.6	5.4	5.9	6.6	8.9
21	8.8	11.0	14.8	6.8	11.5	4.9	4.5	5.5	5.3	5.8	7.1	15.2
22	8.1	13.3	13.0	6.3	9.4	5.5	3.5	5.6	4.9	5.7	6.9	13.8
23	7.1	16.2	11.3	5.8	7.7	7.0	3.1	5.7	5.5	6.0	6.2	11.5
24	7.1	15.5	12.2	5.5	6.5	5.8	4.2	5.7	6.0	6.0	6.5	9.3
25	8.3	12.6	12.5	5.2	5.5	5.8	6.0	5.6	6.2	5.7	7.2	9.1
26	10.8	10.5	11.5	5.4	4.8	5.1	6.7	6.0	5.9	5.5	6.0	9.2
27	9.7	14.3	10.9	5.5	4.2	5.8	7.3	6.5	5.9	5.6	6.0	7.5
28	8.3	15.5	10.1	5.5	4.5	6.4	6.7	5.8	5.9	5.7	5.3	6.4
29	6.3		15.7	5.0	4.2	5.4	5.3	6.0	6.0	6.1	5.7	5.2
30	5.1		20.0	4.8	8.1	6.9	6.4	6.3	6.5	6.0	6.3	5.5
31	4.5		16.6		9.4		6.0	6.4		5.9		3.8

DAILY RIVER STAGES.

Ohio River system—Ohio River, Davis Island Dam, Pennsylvania.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.6	6.4	8.2	18.9	6.3	4.6	5.8	16.0	2.5	12.2	4.5	10.8
2	8.9	7.0	9.7	16.4	6.1	4.6	4.7	11.9	2.6	11.7	4.5	9.2
3	8.2	11.7	9.0	15.0	7.2	5.0	4.1	10.5	2.3	10.6	4.2	7.9
4	7.7	12.8	8.2	13.5	7.7	4.6	3.9	9.3	2.3	9.1	4.0	7.0
5	6.3	12.9	7.0	11.8	7.3	4.0	4.4	8.6	2.2	7.9	4.1	6.3
6	5.3	12.0	6.5	10.6	6.8	3.9	4.3	7.4	2.2	6.7	6.4	6.0
7	4.3	12.2	6.4	9.9	6.3	3.5	5.5	6.2	2.3	6.0	9.5	5.9
8	4.1	12.9	7.0	9.5	5.7	3.5	6.3	6.1	2.6	5.3	8.5	5.7
9	4.7	11.4	7.8	9.0	5.3	4.3	5.7	5.5	2.6	5.0	7.2	6.0
10	4.9	10.1	8.9	8.3	4.9	4.4	4.9	5.5	2.6	5.2	6.5	10.1
11	4.9	9.2	8.6	8.2	4.7	5.3	5.8	5.1	2.6	5.0	6.0	12.1
12	4.7	8.1	8.3	9.4	4.3	5.6	5.4	5.7	2.6	4.7	6.1	10.9
13	4.9	7.8	7.0	10.8	4.0	5.4	4.3	6.5	2.4	4.4	6.8	9.4
14	4.3	9.0	6.3	10.8	4.2	4.5	4.5	7.5	2.2	4.4	7.1	8.6
15	4.3	12.5	6.1	10.7	4.1	4.5	4.8	6.6	2.2	6.8	6.8	7.9
16	4.0	11.7	5.7	10.2	4.0	4.4	8.5	5.4	2.3	9.0	6.3	7.3
17	3.7	10.5	5.9	9.5	3.8	4.3	11.3	4.8	2.5	8.9	6.0	6.8
18	3.6	9.0	6.5	8.9	3.5	4.2	10.6	4.0	2.6	8.0	5.9	6.4
19	3.8	8.1	7.8	8.4	3.6	4.3	8.3	3.5	2.8	7.3	6.0	6.1
20	3.9	6.9	11.4	7.8	3.4	4.5	6.1	3.2	3.3	6.6	5.7	5.9
21	4.1	6.1	11.9	7.8	3.5	4.4	5.7	3.2	3.3	6.2	5.4	5.6
22	4.3	5.1	10.1	8.3	4.0	4.5	5.8	3.1	4.2	7.7	5.4	5.2
23	5.0	4.7	10.8	7.9	4.1	4.4	13.9	2.9	4.5	7.0	6.0	5.1
24	5.5	5.4	10.5	7.2	4.4	4.3	14.6	2.9	4.0	6.7	7.7	4.8
25	7.7	6.0	9.5	7.0	4.3	6.5	17.3	3.0	3.8	8.9	8.1	4.0
26	10.3	5.9	9.5	7.0	4.1	10.2	20.8	3.4	3.4	9.2	7.5	3.8
27	10.5	5.9	12.6	7.6	4.0	8.8	14.0	3.2	3.0	7.8	7.3	3.6
28	9.3	6.2	14.0	7.3	4.1	7.9	16.0	3.2	2.9	6.5	7.6	3.7
29	8.2	6.4	13.0	6.7	4.5	6.8	14.1	3.0	2.8	5.8	9.0	3.7
30	7.4	-----	16.8	6.5	6.7	6.2	11.6	2.9	4.6	5.3	11.3	4.0
31	6.9	-----	19.7	-----	5.8	-----	14.1	2.8	-----	5.0	-----	4.5

1897.

1	5.1	4.5	7.7	8.0	5.6	4.0	2.7	5.8	2.7	2.1	1.4	8.2
2	5.7	4.4	7.2	7.6	6.5	3.8	2.6	5.7	2.6	2.0	1.7	7.2
3	6.7	4.4	7.4	7.2	8.7	3.7	2.6	5.6	2.6	2.0	1.6	6.3
4	7.0	4.7	9.1	6.6	10.5	3.8	3.5	4.7	2.6	1.9	1.6	5.6
5	7.0	4.8	11.7	6.4	9.6	3.8	3.9	4.3	2.6	1.8	2.2	5.5
6	8.1	5.7	15.6	6.3	9.1	3.8	3.7	6.0	2.5	1.5	2.1	11.8
7	8.5	9.1	17.4	7.4	9.2	3.8	2.9	5.7	2.5	1.5	2.1	11.5
8	8.0	12.5	14.6	7.5	8.8	4.5	3.2	4.7	2.5	1.5	2.1	9.5
9	7.2	11.4	12.4	8.0	8.0	4.6	3.3	4.2	2.2	1.5	2.5	8.0
10	6.6	11.0	12.0	13.0	7.3	5.3	4.1	3.9	2.1	1.4	2.8	7.1
11	6.3	9.2	13.4	13.2	7.0	5.1	3.6	4.1	2.0	1.4	5.4	6.9
12	5.9	8.8	13.7	11.3	8.1	4.7	3.3	4.1	1.8	1.2	4.5	7.0
13	5.4	11.0	12.3	10.3	8.9	4.1	3.2	5.3	1.8	1.3	4.5	7.4
14	5.0	11.0	11.7	9.4	12.6	4.0	3.2	5.0	1.6	1.3	4.2	7.6
15	4.3	10.4	10.6	9.6	14.1	3.9	4.4	4.4	1.6	1.4	4.2	8.0
16	4.5	10.2	10.2	12.2	11.6	4.1	4.3	3.7	1.5	1.4	5.8	12.2
17	4.7	9.9	9.4	11.5	9.7	4.7	3.8	3.6	1.5	1.4	7.4	13.7
18	5.4	9.4	8.8	10.3	8.7	5.5	2.9	6.3	1.5	1.4	8.2	11.7
19	7.0	9.7	8.8	9.2	7.8	5.2	3.7	6.8	1.5	1.4	7.9	11.3
20	8.1	9.3	11.3	8.7	7.1	5.7	6.1	6.1	1.5	1.4	6.8	10.7
21	7.3	8.8	12.4	8.1	6.5	5.3	7.0	4.9	1.7	1.4	5.9	9.8
22	6.8	10.4	12.2	7.4	6.1	5.2	8.3	4.0	1.6	1.4	5.1	11.7
23	7.0	21.8	11.7	7.0	5.8	5.6	8.5	3.8	1.6	1.4	4.7	11.4
24	6.0	26.6	11.7	6.4	5.6	5.0	9.4	3.6	1.6	1.4	4.0	9.7
25	4.8	17.8	12.7	6.0	5.6	4.3	7.8	3.5	1.6	1.3	4.0	7.8
26	4.5	12.0	12.7	5.8	5.4	3.9	6.9	3.6	3.0	1.4	3.9	6.5
27	4.5	9.8	11.6	6.1	5.2	3.5	6.4	3.2	2.7	1.3	4.5	6.1
28	4.0	8.5	10.5	6.4	4.9	3.5	6.7	3.1	2.7	1.3	10.7	6.1
29	4.2	-----	9.8	6.5	4.6	3.0	7.2	2.9	2.5	1.4	11.3	5.9
30	4.3	-----	9.0	5.9	4.4	2.7	7.2	3.0	2.4	1.4	9.7	5.6
31	4.2	-----	8.6	-----	4.1	-----	6.6	2.9	-----	1.4	-----	5.5

DAILY RIVER STAGES.

261

Ohio River system—Ohio River, Davis Island Dam, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.6	7.9	7.1	13.0	7.5	6.0	5.5	3.5	3.9	2.2	6.2	5.2
2	7.2	6.7	6.7	11.2	6.8	5.5	4.6	3.5	3.6	2.2	5.9	5.2
3	6.4	5.7	6.6	10.1	6.2	4.9	4.1	3.3	3.4	2.1	5.4	5.0
4	5.7	4.3	6.3	9.3	6.0	4.7	3.6	3.3	3.1	2.1	5.4	5.2
5	5.4	4.9	6.1	8.6	5.9	4.0	3.3	3.6	3.1	2.1	5.1	5.8
6	5.5	4.9	6.0	8.0	5.6	4.0	3.0	9.0	3.0	2.0	4.9	7.5
7	6.3	5.3	5.9	7.5	5.6	3.6	2.9	8.7	2.9	2.0	6.0	7.7
8	9.7	5.5	5.8	7.0	7.2	3.6	2.8	7.1	3.1	2.0	8.7	7.0
9	10.2	5.7	5.8	6.9	9.3	3.4	3.0	6.7	3.6	3.6	8.6	6.3
10	10.0	6.1	6.1	6.8	9.0	3.3	2.9	10.0	3.9	3.9	7.8	5.1
11	13.3	7.5	6.8	6.6	7.9	3.3	2.7	12.3	3.8	3.6	9.7	4.5
12	13.3	10.4	7.3	6.6	7.0	3.2	2.5	12.7	3.6	3.3	15.0	4.3
13	13.7	13.5	8.1	6.5	6.6	3.4	2.4	10.1	3.3	3.1	13.2	4.3
14	16.4	14.0	9.2	6.2	7.3	5.9	2.1	10.0	3.0	2.9	11.4	4.5
15	15.4	12.5	9.7	6.2	7.5	6.7	2.1	7.9	2.6	3.0	10.1	4.4
16	14.9	11.5	9.2	7.3	7.7	6.1	2.1	6.9	2.5	3.0	9.3	4.1
17	16.5	10.0	8.7	10.3	10.7	5.0	2.0	5.6	2.4	3.2	8.7	4.3
18	13.7	9.3	10.5	9.5	13.3	4.1	2.2	5.0	2.3	3.3	8.1	4.4
19	11.6	9.0	11.7	8.2	10.3	5.0	2.2	5.3	2.3	4.1	7.5	5.5
20	10.2	10.3	10.2	7.2	9.1	6.6	4.6	13.1	2.3	5.7	7.1	7.0
21	10.7	11.6	14.2	6.6	10.0	5.7	3.4	11.7	2.0	6.8	8.0	12.3
22	11.9	13.0	17.9	6.2	10.1	5.0	3.7	9.8	2.2	7.1	8.7	14.3
23	12.8	12.4	23.3	5.9	9.6	5.0	3.4	8.1	2.2	14.6	8.0	14.2
24	18.0	10.9	27.1	6.2	10.8	4.6	2.9	6.8	2.1	12.2	7.3	14.6
25	15.6	9.7	21.9	8.6	9.9	3.8	2.9	5.9	2.1	11.0	6.9	13.1
26	13.7	8.9	19.3	13.1	9.2	3.8	2.8	5.4	2.1	9.7	6.4	11.4
27	13.7	8.2	14.3	13.2	8.7	3.5	2.7	5.5	2.2	8.7	5.9	9.8
28	12.0	7.6	11.9	11.2	8.1	3.4	2.6	5.8	2.8	8.0	5.5	8.7
29	10.6		10.9	9.4	7.6	3.2	3.0	5.4	2.5	7.7	5.2	7.8
30	9.4		16.0	8.3	7.0	5.7	3.4	4.8	2.6	7.2	5.2	7.0
31	8.6		16.3		6.3		3.6	4.4		6.7		7.2

1899.

1	7.8	4.9	12.6	12.4	5.1	7.9	5.3	4.2	2.2	2.9	2.8	4.0
2	8.3	4.6	11.3	11.0	5.0	7.1	4.8	4.2	2.9	2.7	4.0	3.9
3	7.0	4.4	11.1	10.0	5.0	7.3	4.2	3.5	2.4	2.6	6.5	4.0
4	6.7	5.6	10.7	9.0	6.0	7.0	3.7	4.1	3.4	2.9	6.5	4.2
5	8.9	13.1	12.0	8.4	6.8	6.1	3.2	3.7	3.2	2.9	5.6	4.9
6	12.0	11.4	19.7	8.0	6.2	5.4	3.1	5.5	2.9	2.9	5.4	5.0
7	13.8	9.2	17.2	7.7	5.7	4.7	3.0	4.6	2.5	2.7	4.9	4.9
8	15.6	7.7	13.3	9.3	5.2	5.0	3.2	4.1	2.4	2.6	4.6	4.6
9	12.1	6.7	11.1	11.8	5.3	4.9	2.9	3.9	2.5	2.5	4.1	4.4
10	10.0	4.9	10.0	11.9	8.8	4.7	4.1	3.4	3.8	2.5	4.1	4.5
11	8.8	4.4	10.0	10.9	8.0	4.5	3.7	4.0	3.6	2.2	3.9	4.7
12	7.9	4.4	9.9	9.9	7.0	4.7	3.6	3.5	6.5	2.2	3.8	5.5
13	7.3	4.6	9.4	9.4	7.3	5.3	3.4	3.2	5.1	2.2	3.9	11.8
14	8.5	4.7	9.0	9.7	7.2	4.9	2.9	3.9	4.4	2.1	4.4	13.4
15	14.3	4.6	8.7	9.6	6.4	4.4	2.8	3.1	3.4	2.1	4.5	11.7
16	15.6	4.4	8.3	9.1	5.8	5.7	2.6	3.0	3.3	2.1	4.4	10.7
17	13.5	4.5	8.2	8.7	5.8	6.1	3.4	2.8	2.9	2.1	4.9	9.2
18	12.1	4.7	8.4	8.3	10.1	6.0	6.8	2.4	2.4	2.0	5.2	8.2
19	10.9	5.5	8.3	7.9	17.0	5.2	7.9	2.3	2.4	2.0	5.2	7.6
20	9.7	8.6	11.3	7.5	13.5	4.3	6.6	2.2	2.4	1.9	4.9	8.5
21	8.7	11.2	12.6	7.0	10.7	4.0	5.6	2.0	2.1	1.9	5.5	12.6
22	8.1	12.6	11.5	6.5	9.1	3.9	4.5	2.0	1.8	1.8	5.5	11.8
23	7.7	14.1	10.5	6.2	8.0	5.1	4.1	2.0	1.6	1.8	5.1	10.4
24	7.4	13.5	10.7	5.8	7.0	4.4	3.2	1.9	1.7	1.8	5.4	9.1
25	8.3	11.3	11.0	5.6	6.2	4.2	3.3	1.8	1.8	1.8	6.3	9.0
26	10.5	9.8	10.3	6.0	5.8	3.7	3.5	1.8	2.1	1.8	5.6	9.3
27	9.9	12.3	9.8	6.3	5.2	3.5	5.1	3.2	1.9	1.7	5.0	8.1
28	9.0	13.6	9.3	6.0	4.9	3.6	4.9	2.4	1.9	1.6	4.8	7.0
29	7.5		13.6	5.6	4.7	4.8	4.4	2.0	1.9	1.5	4.5	6.0
30	6.2		17.9	5.4	5.7	5.7	3.6	2.0	2.6	1.6	4.1	5.7
31	5.4		14.5		7.1		3.5	2.3		1.8		4.7

DAILY RIVER STAGES.

Ohio River system—Ohio River, Beaver Dam, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.8	7.9	9.6	27.5	7.7	6.0	7.0	22.4	2.9	13.1	5.0	14.2
2	11.8	8.7	11.4	24.1	7.3	5.5	6.3	17.2	2.9	16.0	5.4	11.8
3	10.6	14.6	11.3	21.9	9.0	5.5	4.9	13.5	2.6	14.0	5.1	9.8
4	9.5	18.2	9.9	19.4	9.9	5.6	4.8	11.9	2.6	11.8	5.0	8.5
5	8.3	18.9	8.7	16.5	9.3	4.9	4.8	10.5	2.5	10.0	4.7	7.6
6	6.9	17.3	7.9	14.2	8.4	4.6	5.3	9.0	2.6	8.5	5.9	7.2
7	5.7	17.9	7.5	12.9	7.8	4.2	6.3	7.7	2.6	7.4	11.1	7.1
8	4.8	19.1	8.1	12.2	7.1	4.3	7.6	7.1	3.0	6.7	10.3	7.0
9	5.5	16.6	8.9	11.3	6.5	5.8	7.0	6.6	3.1	6.3	8.7	7.1
10	6.0	14.0	10.7	10.4	6.1	7.2	6.2	6.7	3.0	5.6	7.6	11.2
11	6.0	12.3	10.6	10.0	5.6	6.6	6.9	7.5	2.9	6.4	7.0	16.7
12	6.0	10.5	10.1	12.0	5.1	7.3	6.7	7.2	2.9	5.9	7.1	14.7
13	5.6	9.9	8.9	14.5	4.8	7.0	5.9	8.0	2.8	5.4	7.9	12.2
14	5.3	11.0	8.0	14.2	4.9	6.4	5.0	10.1	2.6	5.2	8.4	10.7
15	5.3	17.1	7.5	14.0	5.0	5.8	6.0	8.2	2.6	7.5	8.1	9.3
16	5.1	16.6	7.1	13.2	5.0	5.5	9.1	6.9	2.6	10.9	7.6	8.5
17	4.5	14.6	7.2	12.1	4.7	5.4	13.9	6.9	2.7	10.8	7.2	8.1
18	4.2	11.9	7.0	11.1	4.2	5.3	13.8	5.4	2.8	9.7	7.0	7.6
19	4.4	10.4	8.8	10.2	4.3	5.1	10.7	4.4	2.9	8.7	7.0	7.4
20	4.5	8.9	13.3	9.4	4.0	5.5	7.9	4.1	3.9	8.0	6.8	7.0
21	4.7	7.9	16.0	9.6	4.0	5.5	7.0	3.8	3.9	7.4	6.5	6.6
22	5.1	6.9	13.2	10.6	4.6	5.9	16.9	3.7	3.6	8.4	6.4	6.2
23	5.5	6.1	13.8	10.5	5.0	5.6	16.0	3.6	5.6	8.4	6.7	6.0
24	6.7	6.4	14.5	9.2	5.3	5.2	20.1	3.6	4.9	7.6	8.3	5.6
25	10.0	7.1	12.7	9.5	5.4	8.8	20.8	3.7	4.6	9.5	9.5	5.1
26	13.2	7.3	12.8	9.3	5.1	11.6	28.7	3.7	4.0	11.3	8.9	4.8
27	14.5	7.3	18.1	9.2	4.8	11.1	21.5	3.9	3.5	9.4	8.6	4.1
28	12.6	7.5	21.1	8.9	4.8	9.8	19.4	3.8	3.5	8.0	8.7	4.4
29	10.7	7.8	19.2	8.2	5.4	8.4	21.1	3.6	3.2	7.0	10.4	4.2
30	9.5	-----	24.1	7.8	7.8	7.5	16.7	3.4	5.1	6.4	14.0	4.4
31	8.5	-----	28.6	-----	7.2	-----	18.4	3.3	-----	6.0	-----	5.1

1897.

1	-----	5.8	-----	9.7	6.3	4.4	2.8	7.0	3.1	2.0	1.1	9.6
2	-----	6.5	-----	9.0	7.3	4.1	2.8	6.4	3.1	2.1	1.6	8.4
3	-----	6.4	-----	8.4	10.1	3.9	2.5	6.5	3.1	1.9	1.5	7.3
4	-----	6.3	-----	7.7	13.9	3.8	3.2	5.8	3.1	1.8	1.6	6.6
5	-----	6.6	-----	7.3	12.6	3.9	4.7	4.6	3.0	1.7	2.1	6.2
6	-----	7.8	-----	7.2	11.3	4.0	5.8	6.6	2.9	1.7	2.2	11.8
7	-----	13.4	-----	8.2	11.3	3.8	3.0	6.7	2.9	1.4	2.1	13.6
8	-----	19.3	-----	8.6	11.0	7.7	3.6	5.8	2.9	1.4	2.2	11.6
9	-----	17.5	-----	9.3	9.5	7.0	3.1	4.9	2.5	1.4	2.4	9.5
10	-----	16.1	-----	17.3	8.5	6.8	4.2	4.5	2.3	1.3	2.8	8.3
11	-----	12.9	-----	20.1	8.2	6.3	3.2	4.6	2.2	1.3	4.2	7.7
12	-----	11.6	-----	16.3	9.6	5.8	3.7	5.3	2.0	1.3	5.6	7.9
13	-----	14.0	-----	14.0	10.9	4.6	4.0	5.8	2.0	1.2	5.2	8.3
14	-----	15.0	-----	12.8	16.3	4.4	3.9	5.9	1.9	1.2	4.9	8.5
15	-----	14.2	-----	12.8	20.1	4.5	4.7	5.1	1.9	1.2	4.9	10.0
16	-----	13.9	-----	16.3	16.2	4.3	5.1	4.8	1.8	1.2	6.0	15.0
17	-----	13.2	-----	16.1	12.8	5.4	5.1	4.6	1.8	1.2	8.8	19.8
18	-----	13.1	-----	13.9	10.7	6.4	4.1	5.8	1.7	1.2	9.4	16.2
19	-----	13.5	-----	12.0	9.3	5.9	4.6	8.3	1.7	1.2	9.2	15.2
20	-----	12.8	-----	10.7	8.3	6.4	7.9	7.6	2.2	1.2	8.0	14.1
21	-----	11.8	-----	9.6	7.5	6.0	9.1	6.6	2.1	1.2	7.1	12.3
22	-----	13.1	-----	8.7	7.2	5.7	10.4	5.1	1.7	1.2	6.2	14.2
23	-----	27.6	-----	7.9	7.0	6.4	12.9	4.6	1.8	1.1	5.6	15.6
24	-----	37.7	-----	7.4	6.4	5.9	13.7	4.5	1.9	1.1	4.5	12.1
25	-----	29.5	-----	7.0	6.4	4.6	11.3	4.0	1.7	1.1	4.5	9.4
26	-----	18.9	-----	6.8	6.1	4.3	9.5	4.3	1.7	1.1	4.5	7.5
27	-----	13.5	-----	7.1	5.8	3.3	8.3	4.2	3.1	1.1	5.1	6.9
28	-----	10.9	-----	7.3	5.4	3.7	9.5	3.7	2.8	1.1	10.5	6.9
29	-----	-----	-----	7.3	5.2	3.3	8.7	3.3	2.6	1.1	14.3	6.8
30	-----	-----	-----	6.8	4.8	2.7	8.8	3.6	2.3	1.1	12.1	6.3
31	-----	-----	-----	-----	4.6	-----	8.0	3.3	-----	1.1	-----	6.1

DAILY RIVER STAGES.

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Ohio River system—Ohio River, Beaver Dam, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.4	9.6	1.9	8.2	4.9	8.5	6.7	5.3	4.4	2.1	7.8	6.4
2	8.0	8.2	1.9	7.2	7.5	7.6	6.5	4.2	4.0	2.0	7.2	6.4
3	7.6	7.0	1.8	5.8	12.7	6.8	4.6	3.9	3.8	2.0	6.8	6.1
4	6.6	5.5	1.8	5.0	15.6	6.7	4.0	3.9	3.3	1.9	6.1	6.2
5	6.2	5.7	1.8	6.2	17.6	6.5	3.7	6.1	3.3	2.1	6.1	7.0
6	6.0	5.8	1.7	8.7	18.8	6.5	3.1	8.4	3.3	2.2	6.4	9.0
7	6.6	6.0	1.7	11.1	20.1	5.9	3.1	10.5	2.9	2.2	7.8	9.7
8	11.1	6.5	1.6	11.3	19.6	5.6	2.9	8.6	3.1	2.2	10.9	9.0
9	13.0	6.7	1.6	10.2	18.6	4.6	2.9	7.9	3.5	3.5	10.9	8.1
10	12.6	7.0	1.5	9.5	16.5	3.9	3.0	9.4	4.2	4.6	10.0	7.2
11	16.1	9.1	1.7	9.3	13.6	4.2	2.9	14.0	4.2	4.5	13.3	6.0
12	19.2	13.2	2.0	8.7	11.7	3.8	2.4	16.6	3.9	4.0	22.0	5.5
13	20.5	20.3	3.9	7.0	10.9	3.7	2.3	12.8	3.4	3.5	19.6	5.6
14	24.6	21.8	8.2	5.8	10.2	3.7	2.1	11.9	3.2	3.5	16.1	5.5
15	23.8	19.0	11.7	5.2	10.0	4.5	2.1	9.8	2.5	3.4	13.6	5.6
16	21.8	16.2	12.3	4.7	10.3	7.6	2.1	7.8	2.5	3.4	12.1	5.2
17	24.4	13.6	11.2	4.4	14.3	10.2	2.1	6.6	2.3	3.8	11.0	5.2
18	21.1	12.0	9.6	4.1	13.7	9.0	2.1	6.0	2.2	4.9	10.1	5.4
19	15.8	11.1	10.3	4.0	13.0	8.2	2.2	6.5	2.2	4.9	9.3	6.7
20	13.4	12.9	10.3	3.9	12.5	8.6	3.8	16.2	2.2	5.7	8.7	7.6
21	15.7	16.9	10.6	3.7	13.6	8.1	4.8	16.4	1.8	8.4	9.0	16.1
22	17.0	19.5	16.8	3.7	15.8	7.0	4.1	12.6	1.8	8.2	10.8	21.8
23	19.3	18.6	20.9	4.0	16.8	5.8	3.9	9.9	1.8	19.1	10.0	21.9
24	26.4	15.2	22.0	4.9	17.7	4.7	3.5	8.1	2.0	17.6	9.1	21.9
25	25.2	12.8	20.1	6.0	16.1	4.6	3.6	6.9	2.0	14.9	8.5	19.7
26	21.3	11.2	16.1	5.9	14.6	4.7	3.2	6.3	2.0	13.0	8.0	15.9
27	21.0	9.9	12.1	5.7	13.5	5.1	2.7	5.4	2.0	10.8	7.4	13.3
28	17.5	9.1	10.4	5.9	12.2	14.5	2.7	6.8	3.0	9.9	6.9	11.3
29	14.3		9.9	5.6	11.6	17.4	2.8	6.3	2.5	9.3	6.4	10.7
30	12.1		9.5	5.3	11.1	16.4	3.7	5.5	2.6	8.8	6.3	9.0
31	10.6		8.9		10.8		4.8	5.1		8.1		8.7

1899.

1	9.1	6.4	18.4	19.3	6.4	10.6	6.7	4.1	2.5	3.5	3.4	4.9
2	10.6	5.6	15.8	15.6	6.1	9.3	6.1	5.2	3.3	3.4	4.5	4.8
3	9.0	5.6	15.5	13.6	6.0	8.9	5.0	4.7	4.4	3.1	7.4	4.8
4	7.9	6.0	14.9	12.8	6.4	8.9	4.6	3.9	4.1	3.2	7.9	5.0
5	10.8	16.6	16.9	10.7	7.9	8.0	3.8	4.5	3.7	3.4	7.1	5.9
6	15.6	15.3	26.3	10.0	7.6	7.3	3.8	7.1	3.5	3.3	6.5	6.4
7	18.5	12.0	26.3	9.6	6.9	6.3	3.3	5.7	3.0	3.1	6.2	6.2
8	22.1	9.8	20.0	12.0	6.5	6.6	3.6	5.1	2.7	2.9	5.7	5.9
9	17.6	8.5	15.7	15.8	6.3	6.4	3.7	4.5	2.8	2.9	4.8	5.6
10	13.8	6.3	15.4	17.8	9.8	6.0	4.7	4.0	2.7	2.7	5.0	5.7
11	11.6	5.6	13.0	15.1	9.9	5.8	4.8	4.8	4.4	2.7	4.7	5.9
12	10.1	5.1	13.5	13.2	8.8	5.6	4.3	5.5	5.4	2.5	4.6	6.4
13	9.1	6.2	12.5	12.2	8.1	6.7	4.1	3.8	6.8	2.6	4.6	11.9
14	10.0	9.2	11.6	11.9	8.7	5.6	3.4	4.8	5.4	2.5	5.1	18.5
15	20.3	9.6	11.1	12.3	7.8	5.5	3.2	3.6	4.0	2.4	5.6	16.5
16	24.5	10.1	10.4	11.5	7.2	6.7	2.8	3.6	3.8	2.3	5.5	14.6
17	21.5	10.0	10.2	10.8	6.8	7.7	3.9	3.3	3.3	2.3	5.5	12.1
18	17.9	10.1	10.4	10.3	9.5	7.6	7.1	2.7	2.8	2.2	6.6	10.4
19	13.4	10.7	10.6	9.7	23.0	6.6	9.3	2.6	2.8	2.2	6.5	9.6
20	13.0	10.8	15.6	9.1	20.0	5.1	7.9	2.4	2.7	2.1	6.3	11.6
21	11.1	14.8	17.8	8.8	15.5	4.8	6.9	2.3	2.4	2.0	6.6	17.5
22	10.2	17.7	16.2	8.1	11.6	4.5	6.0	2.4	2.2	1.9	6.7	16.9
23	9.6	19.7	15.6	7.6	9.9	6.3	4.9	2.3	1.9	1.9	6.4	14.1
24	9.1	19.7	16.3	7.3	8.7	5.5	4.1	2.2	1.8	1.9	6.4	11.7
25	9.6	18.2	16.9	7.0	7.8	5.2	3.7	2.1	2.0	2.0	7.3	11.1
26	13.0	13.3	13.1	7.3	7.0	4.6	4.3	2.0	2.4	2.0	7.0	11.8
27	13.0	16.9	13.4	7.6	6.5	4.3	4.9	3.2	2.4	1.8	6.3	10.5
28	11.3	20.7	12.5	7.5	6.0	4.4	6.0	2.9	2.2	1.7	6.0	8.6
29	9.3		16.9	7.0	6.0	6.8	5.4	2.2	2.2	1.7	5.4	7.5
30	8.1		26.2	6.7	7.5	6.7	4.4	2.2	3.5	2.0	5.0	7.0
31	7.0		22.2		9.8		4.2	2.6		2.1		6.3

DAILY RIVER STAGES.

Ohio River system—Ohio River, Wheeling, W. Va.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.5	8.0	7.7	29.9	7.7	6.6	6.9	22.1	3.0	6.3	5.5	14.3
2	12.2	7.9	9.6	27.6	7.3	5.6	6.5	21.0	2.9	15.6	4.9	12.9
3	10.0	9.9	11.0	24.6	8.2	5.0	5.9	16.5	2.9	14.6	5.0	10.3
4	9.9	17.0	9.9	21.9	9.6	5.3	4.5	12.5	2.7	12.6	4.9	8.9
5	Frozen.	19.6	8.7	18.6	9.5	5.2	5.4	11.0	2.5	10.0	4.8	7.8
6	8.6	18.9	7.9	15.6	8.5	4.7	8.5	9.7	2.5	8.9	4.8	7.3
7	6.2	18.4	7.2	13.3	7.9	4.3	5.9	8.3	2.6	7.8	7.3	6.9
8	5.2	19.9	7.3	12.0	7.3	4.3	6.6	7.6	2.4	6.9	10.5	6.9
9	4.5	18.9	7.9	11.3	6.9	4.9	7.4	7.0	2.6	6.4	9.3	7.1
10	4.5	17.7	9.2	10.5	6.2	6.1	7.0	6.5	2.8	5.9	7.9	8.2
11	5.5	13.1	10.3	9.8	5.9	6.9	6.4	7.0	2.6	5.7	7.3	14.3
12	5.4	11.3	11.4	10.4	5.4	6.6	6.9	7.3	2.5	6.0	6.9	15.9
13	5.3	9.9	9.9	12.9	5.0	6.9	6.5	7.5	2.5	5.6	7.0	13.5
14	4.9	10.3	7.9	15.3	4.9	6.5	5.9	9.0	2.5	5.1	7.3	11.1
15	4.9	13.9	7.4	13.9	4.7	5.9	5.4	8.8	2.4	5.0	7.9	9.9
16	4.6	17.3	7.1	13.6	4.8	5.9	7.3	7.6	2.3	8.1	7.6	9.0
17	4.6	15.9	6.7	12.3	4.6	5.4	11.1	7.6	2.3	10.2	7.0	8.4
18	4.1	12.9	6.7	11.0	4.4	5.0	13.5	5.9	3.3	9.8	6.9	8.0
19	3.9	10.4	7.6	10.1	3.9	4.9	12.0	5.3	2.6	8.9	6.6	7.6
20	3.9	9.5	11.2	9.3	3.9	4.8	9.3	4.4	2.6	8.0	6.7	7.4
21	4.2	8.3	15.6	9.0	3.8	5.1	8.9	3.9	3.3	7.5	6.5	7.0
22	4.3	7.0	15.2	10.0	3.8	5.3	7.3	3.7	3.5	7.0	6.3	6.8
23	4.9	6.3	13.7	10.4	4.3	5.4	9.2	3.7	4.2	8.3	6.2	6.6
24	6.3	5.9	14.9	10.6	4.8	5.2	19.0	3.3	5.0	7.9	6.9	6.6
25	8.9	6.4	13.6	9.0	4.9	5.9	21.9	3.4	4.5	7.6	8.3	6.4
26	11.9	6.7	12.2	9.0	5.0	8.8	27.5	3.3	4.2	10.1	8.9	5.1
27	14.9	6.9	15.9	8.9	4.9	11.3	27.3	3.6	3.7	10.0	8.3	4.9
28	13.2	6.9	20.9	8.9	4.6	9.9	22.0	3.3	3.2	8.6	8.4	4.2
29	11.2	7.4	20.9	8.3	4.7	8.7	24.0	3.4	3.2	7.2	9.4	4.2
30	9.6	-----	22.0	7.8	5.0	7.6	21.0	3.3	4.4	6.6	11.7	4.6
31	8.5	-----	28.4	-----	7.3	-----	20.4	3.1	-----	6.2	-----	5.0

1897.

1	6.0	Frozen.	10.4	9.9	6.9	4.6	3.0	7.5	3.0	2.1	0.5	11.3
2	7.3	9.5	9.3	9.3	6.6	4.5	2.9	6.8	2.7	1.5	0.6	9.3
3	8.1	10.0	8.9	8.7	8.9	4.2	2.8	6.5	2.8	1.5	0.8	8.0
4	8.4	10.6	10.0	8.1	12.0	3.9	2.8	6.3	2.9	1.0	1.0	7.2
5	8.6	10.2	14.3	7.9	13.1	4.0	2.8	5.6	2.8	1.0	0.9	6.6
6	8.8	10.3	21.7	7.5	11.6	3.9	4.6	4.5	2.7	1.0	1.0	6.2
7	9.8	15.9	28.0	7.5	10.9	4.0	5.3	6.7	2.6	1.0	1.8	14.9
8	9.9	18.4	27.0	8.5	10.9	5.1	3.3	6.4	2.6	0.9	1.7	13.5
9	9.0	19.6	22.3	9.5	10.2	7.9	3.2	5.6	2.6	0.9	2.0	10.8
10	8.2	17.2	18.9	14.8	9.0	7.0	3.0	4.8	2.5	0.9	3.2	9.0
11	7.8	15.1	18.2	20.7	8.4	6.9	3.9	4.5	1.8	0.8	2.3	8.0
12	7.3	12.9	20.6	18.9	8.7	6.6	4.4	4.5	1.3	0.7	4.3	7.8
13	6.8	13.1	19.8	18.5	10.4	5.9	4.0	4.8	1.3	0.7	5.0	8.0
14	6.3	15.2	16.8	13.6	12.1	5.0	3.9	5.5	1.2	0.8	5.2	8.4
15	6.1	14.9	15.5	13.5	18.0	4.5	3.8	5.5	1.1	0.8	4.9	9.6
16	5.4	14.3	13.9	14.4	18.8	4.5	4.6	5.0	1.0	0.8	5.1	12.0
17	5.5	13.9	12.6	17.2	17.0	4.9	4.9	4.5	1.0	0.7	7.9	18.9
18	5.9	13.2	11.2	18.3	11.8	5.6	4.9	4.4	1.0	0.7	9.3	18.2
19	6.6	13.3	10.5	13.0	9.9	6.5	4.2	7.2	0.9	0.7	9.6	16.0
20	7.9	13.4	11.9	11.2	8.9	6.6	5.1	7.8	1.0	0.7	8.8	14.9
21	9.2	12.6	16.9	10.0	8.0	6.6	9.0	6.6	1.0	0.5	9.0	13.2
22	8.5	12.4	18.0	9.2	7.4	6.1	9.6	6.0	1.2	0.5	7.9	12.6
23	8.1	19.5	17.0	8.4	7.0	5.9	10.0	4.9	1.1	0.5	6.3	15.2
24	7.9	35.3	16.9	7.9	6.9	6.3	13.8	4.5	1.1	0.5	5.2	14.0
25	6.9	37.0	17.6	7.4	6.6	5.9	12.5	4.2	1.0	0.5	4.4	11.0
26	6.3	27.0	18.9	7.3	6.6	4.9	10.3	3.8	1.0	0.5	4.5	8.8
27	5.9	17.3	17.9	7.0	6.3	4.3	8.8	3.9	1.0	0.5	5.5	7.5
28	5.9	12.6	15.6	7.3	5.9	3.9	8.7	3.9	2.3	0.4	6.5	7.1
29	7.6	-----	14.5	7.5	5.7	3.9	8.5	3.3	2.6	0.4	13.6	6.9
30	8.5	-----	12.1	7.3	5.8	3.6	8.5	3.0	2.1	0.4	13.4	6.9
31	Frozen.	-----	10.9	-----	4.9	-----	8.2	3.0	-----	0.4	-----	6.9

DAILY RIVER STAGES.

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Ohio River system—Ohio River, Wheeling, W. Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.8	10.6	9.0	23.0	9.3	7.4	4.4	5.0	5.0	2.2	7.5	5.9
2	6.3	9.0	8.6	18.0	8.6	6.4	5.5	5.4	4.4	1.8	6.9	6.0
3	7.5	7.9	8.0	14.5	7.6	6.1	5.3	4.5	3.9	1.7	6.6	5.9
4	6.6	7.1	7.9	12.4	7.3	5.5	4.6	4.3	3.7	1.7	6.1	5.8
5	6.8	5.9	7.6	11.0	7.0	5.2	4.0	5.4	3.7	1.7	5.7	5.8
6	6.4	5.8	7.5	10.0	6.8	5.0	3.5	6.3	3.3	1.6	5.6	7.3
7	7.1	5.9	7.3	9.2	6.5	5.4	3.0	10.0	3.3	1.6	6.8	8.9
8	8.1	6.3	7.0	8.5	7.2	4.0	2.9	9.6	3.0	1.6	7.8	8.9
9	12.9	6.7	7.0	8.0	9.8	4.0	2.5	8.5	3.0	1.8	10.3	8.4
10	14.0	7.0	7.0	8.0	10.9	3.9	2.3	7.8	3.3	2.0	9.9	7.3
11	14.0	7.8	7.5	7.8	10.0	3.9	2.3	11.4	4.1	3.9	11.0	6.3
12	19.2	10.7	8.0	7.5	9.0	3.4	2.2	15.3	4.1	4.0	17.6	6.2
13	20.1	18.0	8.5	7.4	8.4	3.7	2.0	15.3	3.9	3.6	21.1	5.2
14	23.2	21.4	9.9	7.3	8.9	5.2	1.8	11.9	3.0	2.9	18.0	Frozen.
15	25.4	20.9	11.2	7.2	9.1	7.2	1.7	11.3	2.9	2.9	14.6	4.9
16	24.0	18.5	11.9	7.1	9.3	7.9	1.9	8.8	2.1	2.9	12.5	6.6
17	24.2	15.9	12.2	8.6	11.0	6.9	2.2	7.3	1.9	2.9	11.0	8.6
18	23.8	13.5	10.4	11.9	16.0	6.0	2.9	6.5	1.9	2.9	9.9	5.2
19	19.3	11.9	14.2	10.8	16.9	4.9	1.8	6.9	1.8	3.4	8.9	5.2
20	15.7	11.9	15.3	9.0	13.4	9.9	1.7	11.1	1.8	4.6	8.4	6.8
21	16.3	15.9	18.9	8.0	11.9	8.9	3.1	17.5	1.7	5.6	8.0	11.2
22	17.4	19.1	25.6	7.4	13.4	7.2	4.6	14.9	1.7	7.9	9.2	20.2
23	20.6	19.8	35.4	7.0	12.9	6.1	4.2	11.2	1.6	11.6	9.8	22.8
24	23.6	17.2	43.9	7.3	12.4	5.8	3.6	9.0	1.6	18.7	8.9	22.5
25	27.5	14.8	42.9	9.8	13.0	5.5	3.1	7.3	1.6	16.0	8.2	21.5
26	25.0	12.3	37.0	12.8	11.9	4.5	3.6	6.5	1.7	14.0	7.8	18.2
27	22.3	10.9	29.9	18.2	10.8	4.2	3.4	6.1	1.6	11.6	7.3	14.8
28	20.2	9.9	21.9	17.5	10.0	4.8	2.9	5.8	1.5	9.9	6.7	11.8
29	17.0	-----	16.7	13.8	9.0	4.3	2.7	6.5	1.5	9.0	6.5	10.2
30	13.8	-----	17.0	10.9	8.2	3.9	2.4	6.3	2.3	8.4	6.0	9.5
31	12.0	-----	24.0	-----	7.6	-----	3.5	5.5	-----	7.9	-----	8.4

1899.

1	8.4	Frozen.	19.2	21.3	6.4	9.8	6.6	3.9	1.7	1.7	1.8	4.5
2	8.8	6.0	17.3	17.3	6.0	9.7	6.2	3.7	2.4	2.3	2.6	4.4
3	9.5	5.1	16.5	14.4	5.9	8.5	5.7	4.6	2.5	2.7	4.0	4.0
4	8.2	7.0	15.4	12.5	5.8	8.5	4.8	4.2	3.7	2.6	7.3	4.0
5	8.5	7.3	17.0	11.0	6.4	8.0	4.2	3.7	3.3	2.5	7.1	4.4
6	12.0	16.0	21.5	9.9	7.3	7.0	3.5	4.1	3.2	2.8	6.5	5.4
7	17.0	13.3	28.2	9.3	6.8	6.5	3.2	6.2	2.9	2.6	6.0	5.9
8	21.3	10.3	24.6	10.3	6.5	5.9	3.0	5.3	2.5	2.5	5.5	5.5
9	20.9	8.9	18.5	13.3	6.0	6.5	3.3	4.6	2.2	2.3	5.3	5.3
10	15.8	7.0	14.6	16.8	6.1	6.6	3.4	4.1	2.1	2.2	4.9	5.2
11	11.9	Frozen.	12.9	16.0	9.4	5.8	4.0	3.7	2.0	2.0	4.6	5.3
12	10.6	-----	13.5	14.0	8.8	5.4	4.4	4.6	3.9	1.9	4.3	5.5
13	9.2	7.9	12.8	12.5	7.8	5.3	3.9	4.8	5.9	1.8	3.7	8.3
14	10.1	8.3	11.6	11.6	7.8	6.4	3.6	3.5	5.9	1.6	3.7	16.5
15	16.5	9.3	10.9	11.8	7.8	5.6	3.3	4.0	4.9	1.6	4.8	17.7
16	24.3	9.4	10.3	11.5	7.0	5.1	2.8	3.5	3.6	1.5	4.5	16.2
17	24.2	9.5	9.7	10.7	6.8	5.5	2.8	3.2	3.0	1.3	5.0	13.4
18	20.3	9.3	9.8	10.0	7.5	6.9	4.6	3.0	2.9	1.3	5.2	11.2
19	16.6	9.8	10.0	9.5	16.9	6.8	8.1	2.5	2.3	1.2	6.3	9.6
20	13.9	10.8	11.4	9.1	22.6	6.0	8.4	1.9	2.1	1.3	6.1	11.0
21	11.6	13.3	16.5	8.4	17.5	5.6	7.1	1.8	2.0	1.2	5.9	13.9
22	10.3	16.0	17.4	7.9	12.6	4.8	6.4	1.8	1.9	1.1	6.3	17.3
23	9.5	19.5	15.5	7.5	10.0	4.3	5.4	1.7	1.7	1.1	6.4	14.8
24	9.0	20.6	14.9	7.1	8.8	5.4	4.5	1.7	1.3	1.1	6.0	12.9
25	9.0	18.5	15.3	7.1	7.8	5.9	3.8	1.6	1.1	1.1	6.2	11.0
26	10.3	14.6	14.9	6.9	7.0	5.5	3.5	1.4	1.0	1.1	6.9	11.1
27	13.0	15.4	13.6	7.0	6.5	5.5	4.3	1.3	1.3	1.1	6.6	10.6
28	11.9	19.2	12.9	7.2	6.0	4.0	4.9	2.2	1.6	1.1	5.9	10.0
29	10.3	-----	15.0	7.1	5.8	4.9	5.6	2.5	1.6	1.1	5.9	9.3
30	8.3	-----	23.9	6.6	6.5	6.5	5.0	1.9	1.6	1.1	5.0	8.0
31	7.6	-----	27.0	-----	8.5	-----	4.2	1.4	-----	1.1	-----	7.9

DAILY RIVER STAGES.

Ohio River system—Ohio River, Marietta, Ohio.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.0	9.2	8.0	28.7	9.2	7.1	7.8	25.4	3.9	9.2	6.2	13.8
2	13.5	9.7	8.8	29.4	8.8	6.4	7.0	24.5	3.7	12.0	5.8	14.6
3	12.7	10.0	10.2	26.9	8.6	5.7	6.5	21.7	3.5	16.9	5.2	12.4
4	11.5	14.4	10.9	23.8	9.4	5.5	6.0	16.5	3.3	15.3	5.3	10.5
5	9.7	18.8	10.0	20.5	10.4	5.5	5.5	13.6	3.3	12.8	5.3	9.1
6	8.5	19.9	9.0	17.7	10.2	5.4	6.3	11.5	3.3	10.7	5.5	8.1
7	Frozen.	20.3	8.8	15.0	9.0	5.3	8.3	9.6	3.2	9.2	7.0	7.5
8	6.5	20.2	8.0	13.0	8.3	5.0	6.5	8.8	3.2	8.0	8.0	7.3
9	5.9	20.1	8.3	12.0	7.7	5.8	6.8	7.9	3.2	7.4	10.0	9.1
10	5.5	18.7	8.7	11.5	7.3	6.5	7.8	7.4	3.1	6.8	9.1	10.2
11	5.5	16.0	10.0	10.9	6.5	7.2	7.3	7.7	3.2	6.2	8.0	11.0
12	5.8	13.5	10.5	10.7	6.1	7.6	6.4	8.3	3.3	5.8	7.7	16.0
13	6.1	11.4	10.2	11.6	5.6	7.3	6.5	9.0	3.7	6.1	7.4	14.5
14	5.8	13.3	9.2	14.0	5.3	7.5	6.5	9.5	3.6	5.9	7.5	13.1
15	5.5	14.0	8.3	14.5	5.0	7.4	6.9	10.0	3.4	5.5	7.9	11.3
16	5.3	17.1	7.8	14.1	5.0	6.9	8.9	9.2	3.2	5.4	8.1	10.4
17	5.1	17.9	7.5	13.3	4.9	6.7	10.4	8.2	3.2	8.4	7.7	9.8
18	4.9	16.0	7.4	12.2	4.9	6.1	13.6	7.2	3.1	9.8	7.3	9.6
19	4.7	13.2	8.7	11.0	4.7	6.0	13.5	6.3	3.0	9.4	7.0	9.1
20	4.6	11.5	16.2	10.2	4.5	5.7	12.1	5.7	2.9	8.7	6.8	8.7
21	4.5	Frozen.	15.5	9.5	4.4	5.2	10.0	5.0	3.1	8.4	6.7	8.1
22	4.6	-----	17.5	9.8	4.5	5.8	11.7	4.5	3.6	8.0	6.8	7.8
23	4.8	-----	17.8	11.0	4.7	7.1	17.5	4.5	4.0	7.5	6.9	7.5
24	6.1	7.2	16.7	11.4	4.7	7.8	18.4	5.0	4.2	8.7	7.1	7.1
25	10.8	6.8	16.4	10.4	4.9	15.5	32.1	4.7	4.9	9.0	7.3	6.3
26	12.8	7.0	15.1	9.8	5.1	9.6	29.9	4.4	4.7	8.4	9.3	6.1
27	14.6	7.4	16.2	9.6	5.1	10.5	29.2	4.3	4.5	10.1	9.3	5.7
28	15.6	7.7	19.0	9.3	5.2	11.5	26.2	4.2	4.2	9.6	9.2	5.5
29	13.8	7.8	21.0	9.2	5.1	10.2	26.7	4.2	4.0	8.4	13.3	5.1
30	11.8	-----	21.8	9.1	5.1	8.9	27.4	4.1	6.6	7.4	12.6	5.0
31	10.1	-----	25.2	-----	5.1	-----	28.4	4.0	-----	6.8	-----	5.3

1897.

1	6.2	Frozen.	13.0	11.4	7.7	5.3	-----	-----	-----	-----	-----	-----
2	6.7	-----	11.0	10.4	8.3	5.1	-----	-----	-----	-----	-----	-----
3	8.9	-----	10.5	9.7	10.8	4.9	-----	-----	-----	-----	-----	-----
4	9.4	-----	11.5	9.1	12.2	4.7	-----	-----	-----	-----	-----	-----
5	9.6	-----	12.9	9.1	14.7	4.5	-----	-----	-----	-----	-----	-----
6	9.7	10.1	21.3	8.9	14.4	4.5	-----	-----	-----	-----	-----	-----
7	9.4	21.5	27.3	8.5	12.7	4.5	-----	-----	-----	-----	-----	-----
8	10.3	23.2	29.6	8.5	11.6	5.4	-----	-----	-----	-----	-----	-----
9	10.2	23.8	27.5	11.5	10.3	5.6	-----	-----	-----	-----	-----	-----
10	9.3	22.5	24.5	17.5	10.3	8.0	-----	-----	-----	-----	-----	-----
11	8.7	20.5	22.0	19.0	9.4	7.4	-----	-----	-----	-----	-----	-----
12	8.1	18.5	21.0	21.2	9.6	7.0	-----	-----	-----	-----	-----	-----
13	7.7	18.2	21.5	19.4	12.6	6.9	-----	-----	-----	-----	-----	-----
14	7.2	16.6	19.4	16.8	14.7	6.3	-----	-----	-----	-----	-----	-----
15	6.8	16.8	17.5	16.7	15.6	5.7	-----	-----	-----	-----	-----	-----
16	6.5	16.2	15.4	17.5	18.5	5.1	-----	-----	-----	-----	-----	-----
17	5.8	15.7	14.2	17.6	17.3	5.8	-----	-----	-----	-----	-----	-----
18	6.3	14.9	13.6	17.8	13.8	6.0	-----	-----	-----	-----	-----	-----
19	6.9	14.4	13.3	15.7	11.4	6.4	-----	-----	-----	-----	-----	-----
20	7.4	14.3	15.0	13.9	9.8	7.8	-----	-----	-----	-----	-----	-----
21	8.9	15.5	16.5	11.8	8.9	7.0	-----	-----	-----	-----	-----	-----
22	9.6	20.5	18.7	10.7	8.2	6.8	-----	-----	-----	-----	-----	-----
23	9.3	26.4	19.1	9.7	7.8	6.3	-----	-----	-----	-----	-----	-----
24	9.0	31.6	18.4	9.1	7.7	6.1	-----	-----	-----	-----	-----	-----
25	Frozen.	36.0	19.0	8.5	7.4	6.3	-----	-----	-----	-----	-----	-----
26	-----	34.2	19.3	8.0	7.1	5.9	-----	-----	-----	-----	-----	-----
27	-----	26.9	19.3	8.1	6.8	5.1	-----	-----	-----	-----	-----	-----
28	-----	17.7	18.0	7.9	6.7	4.7	-----	-----	-----	-----	-----	-----
29	-----	-----	15.9	8.0	6.3	4.4	-----	-----	-----	-----	-----	-----
30	-----	-----	14.1	8.0	6.0	4.6	-----	-----	-----	-----	-----	-----
31	-----	-----	12.6	-----	5.7	-----	-----	-----	-----	-----	-----	-----

DAILY RIVER STAGES.

267

Ohio River system—Ohio River, Parkersburg, W. Va.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.0	9.6	8.5	29.2	9.6	7.5	8.5	27.2	4.4	9.5	7.2	14.2
2	13.8	10.1	8.8	30.0	9.6	7.5	7.8	25.6	4.1	11.2	6.8	14.8
3	12.9	10.3	10.1	28.1	9.1	6.9	7.5	23.0	3.8	16.8	6.2	12.9
4	11.8	13.7	11.0	25.0	9.8	6.6	6.9	17.7	3.5	15.5	6.0	10.8
5	10.0	19.0	10.3	21.9	10.7	6.5	6.5	14.1	3.3	13.2	6.2	9.6
6	Frozen.	20.3	9.4	18.3	10.6	6.5	6.0	12.0	3.3	11.2	6.9	9.0
7		21.2	8.7	15.4	9.6	6.5	9.1	10.0	3.3	9.8	7.2	8.8
8		21.0	8.5	13.4	8.9	6.1	7.7	9.5	3.3	8.8	7.8	8.0
9		20.6	8.7	12.2	8.3	6.8	7.7	8.8	3.3	8.3	10.1	10.0
10		19.2	9.1	11.3	7.8	7.4	8.6	8.0	3.1	8.3	9.5	11.6
11	5.6	16.5	9.9	11.1	7.4	7.9	8.1	8.2	3.1	7.0	9.3	11.6
12	6.2	14.1	10.7	10.8	7.0	8.4	7.5	9.0	3.4	7.5	9.0	15.6
13	6.5	12.1	10.3	11.5	6.8	8.0	7.4	8.2	3.6	7.0	9.0	15.8
14	6.5	13.0	9.7	13.4	6.2	8.2	7.4	9.8	3.2	6.9	9.0	13.6
15	Frozen.	14.4	9.0	14.4	6.2	8.1	8.3	10.3	3.8	7.1	8.3	11.6
16	5.7	16.5	8.5	13.9	6.0	7.7	10.1	9.8	4.1	7.2	9.0	10.5
17	5.6	18.2	8.8	13.1	5.9	7.6	12.8	8.8	3.7	8.5	8.3	10.2
18	5.8	16.4	8.9	12.2	5.7	7.3	14.0	8.0	3.4	10.0	8.0	10.0
19	5.6	13.6	9.2	11.1	5.6	7.3	14.2	7.1	3.2	10.0	7.8	9.7
20	5.2	Frozen.	17.5	10.4	5.2	7.0	12.4	7.0	3.2	9.8	7.6	9.3
21	5.1		16.9	9.8	5.0	6.5	10.6	6.5	3.5	9.4	7.5	8.5
22	5.2		18.0	9.8	5.1	6.8	14.2	5.7	3.7	9.0	7.5	8.2
23	5.5	8.0	18.8	11.0	5.9	8.3	20.6	5.5	4.4	8.7	7.9	8.0
24	6.9	7.5	17.4	11.2	5.7	8.2	19.6	5.3	4.6	9.8	8.1	7.5
25	10.8	7.4	16.9	10.7	5.6	14.2	33.2	5.4	5.5	10.4	8.1	7.5
26	13.0	7.8	15.8	10.0	5.8	10.8	32.1	5.8	5.7	9.6	9.1	7.3
27	14.2	8.1	15.9	9.9	6.2	10.8	31.0	5.6	5.2	10.3	9.4	6.8
28	15.6	8.2	18.8	9.6	6.2	11.8	27.5	5.0	4.8	10.3	9.5	6.5
29	14.1	8.3	21.6	9.8	6.5	10.7	27.2	4.9	4.5	9.7	15.2	6.0
30	12.0		22.2	9.5	6.2	9.4	28.4	4.7	7.1	8.0	14.6	6.0
31	10.5		25.5		6.0		29.7	4.5		7.5		5.8

1897.

1	7.0	Frozen.	13.5	11.7	8.5	6.4	7.0	8.8	3.6	2.6	0.9	13.1
2	8.0		11.0	10.7	10.0	5.9	9.3	8.5	3.6	2.5	1.1	11.2
3	9.0	8.7	11.0	10.0	12.3	5.6	9.9	8.0	3.6	2.4	1.0	9.7
4	9.5	9.8	12.0	9.5	13.0	5.5	8.5	7.6	3.4	2.2	1.1	8.8
5	9.5	8.3	13.0	10.0	14.7	5.5	7.6	7.6	3.3	1.9	1.3	9.3
6	10.1	9.8	20.6	10.0	14.6	5.5	6.0	7.0	3.2	1.8	1.5	10.3
7	10.3	23.0	27.2	9.7	12.8	5.4	5.9	6.2	3.3	1.7	1.7	8.8
8	10.5	25.7	30.3	9.4	11.7	6.8	6.4	6.0	3.1	1.5	1.8	13.6
9	10.5	25.5	28.8	12.0	11.3	6.8	6.0	6.8	3.0	1.5	3.1	12.7
10	10.0	23.9	25.5	19.0	10.6	8.5	5.5	6.5	2.9	1.4	3.8	10.7
11	9.0	21.3	22.7	19.8	9.8	8.1	5.0	6.0	2.8	1.3	4.3	9.4
12	8.5	19.0	21.2	21.8	10.9	7.7	5.5	5.7	2.6	1.2	4.0	8.8
13	8.4	19.1	21.8	20.2	14.1	7.5	7.2	5.0	2.3	1.0	4.0	8.6
14	7.5	17.2	20.3	17.2	16.0	7.3	6.7	5.0	2.1	1.0	6.1	8.9
15	7.2	17.2	18.0	16.8	15.9	6.7	6.0	5.3	2.0	1.0	6.3	9.0
16	7.1	16.5	16.0	18.4	18.7	6.4	5.5	6.7	1.8	1.0	7.0	11.0
17	6.8	16.0	14.3	17.9	17.4	6.7	5.5	6.0	1.8	1.0	8.0	13.2
18	6.8	15.0	14.2	17.8	14.2	7.7	7.7	5.7	1.7	1.0	9.9	17.8
19	8.0	14.2	14.4	16.0	11.7	7.7	7.8	5.4	1.6	1.0	10.3	18.0
20	8.2	14.2	16.0	13.9	10.4	8.7	6.8	6.0	1.5	1.0	10.3	16.0
21	9.4	15.7	17.0	12.0	9.5	9.0	6.5	8.0	1.4	1.0	10.0	15.8
22	10.1	21.8	19.1	10.9	9.2	8.2	10.6	7.5	1.4	1.0	8.7	15.5
23	9.6	29.8	19.4	10.2	8.8	7.5	11.4	7.0	1.4	1.0	7.8	14.2
24	9.0	34.0	19.2	9.7	8.8	7.1	11.6	6.2	1.5	1.0	7.2	15.2
25	Frozen.	37.5	19.6	9.0	8.2	7.1	13.5	5.8	1.6	0.9	6.2	13.2
26		36.4	18.8	8.5	8.0	7.0	12.1	5.5	1.6	1.0	6.0	14.2
27		29.3	19.8	8.5	8.0	6.0	13.5	5.0	1.5	0.9	6.8	10.0
28		19.8	18.6	8.0	7.8	5.5	10.8	4.8	1.5	0.9	9.3	8.7
29			16.1	8.5	7.0	5.0	9.7	4.8	1.4	0.9	9.2	7.7
30			14.3	8.5	6.6	7.5	9.6	4.6	1.8	0.9	13.7	7.7
31			12.9		6.4		9.0	4.2		0.9		7.8

DAILY RIVER STAGES.

Ohio River system—Ohio River, Parkersburg, W. Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.0	13.0	10.8	26.2	12.1	8.8	5.6	6.2	6.5	3.7	8.6	7.1
2	9.5	10.8	9.5	23.6	10.5	8.5	5.0	7.4	6.3	2.9	8.2	7.1
3	8.3	Frozen.	9.5	19.3	9.5	8.0	7.0	7.5	5.9	2.8	7.8	7.3
4	8.8		9.0	16.0	9.0	7.5	6.7	7.7	5.4	2.7	7.5	7.4
5	Frozen.	8.5	9.0	13.4	8.7	6.0	5.8	8.9	5.0	2.5	7.2	7.6
6	8.0	8.5	9.0	12.0	8.4	5.5	5.2	8.9	5.3	2.4	7.0	10.0
7	10.8	8.0	8.8	11.8	8.7	5.5	4.7	8.5	5.7	2.3	7.5	9.5
8	11.1	8.0	8.6	11.0	9.0	5.5	4.2	10.2	5.9	2.4	8.7	10.3
9	11.2	8.0	8.6	10.0	9.5	5.3	3.8	11.7	5.5	2.8	9.8	9.8
10	18.8	9.0	8.5	9.7	10.5	5.2	3.6	13.8	5.0	3.2	10.9	9.0
11	21.3	9.8	8.1	9.2	11.5	5.5	3.4	12.0	4.6	2.8	16.0	8.0
12	19.0	10.4	8.7	9.0	10.7	5.7	3.3	13.6	4.5	3.0	15.7	7.5
13	22.0	15.0	9.5	8.8	10.3	5.8	3.3	16.2	5.9	4.5	19.8	Frozen.
14	23.3	19.9	10.0	8.8	10.7	7.2	3.2	15.0	4.9	4.4	20.8	
15	25.8	22.1	11.4	9.0	10.9	7.7	3.0	12.2	4.5	4.0	18.2	
16	30.2	22.0	12.9	9.4	13.2	8.8	2.8	11.0	4.0	3.6	15.0	
17	28.4	19.8	15.2	9.2	16.5	9.2	3.3	9.2	3.7	3.5	12.7	
18	26.5	17.0	16.5	9.9	16.3	8.6	3.6	8.2	3.5	3.6	11.3	
19	24.3	15.9	14.0	11.8	18.9	7.7	4.2	8.8	8.0	5.5	10.3	8.5
20	21.0	14.5	16.1	11.0	18.0	7.2	4.2	10.7	2.8	6.7	9.7	12.3
21	20.3	17.8	21.2	10.0	15.7	9.5	3.8	13.5	2.6	6.2	9.5	12.5
22	20.0	21.3	29.2	9.2	14.0	9.0	3.8	16.9	2.6	7.7	9.3	16.4
23	26.6	22.1	32.0	8.8	14.7	8.2	5.6	14.5	2.6	11.7	9.8	21.9
24	29.8	21.7	40.0	8.5	14.6	7.3	5.7	11.5	2.6	14.7	10.0	23.5
25	30.0	19.6	46.8	10.4	13.6	6.9	5.2	9.8	2.6	17.5	9.5	23.5
26	31.0	16.7	47.8	18.6	13.3	6.5	5.0	8.6	2.6	15.3	8.9	21.7
27	29.5	14.1	45.2	19.8	12.2	6.0	5.4	7.8	2.7	13.2	8.5	18.2
28	26.4	12.2	40.6	20.3	11.0	6.5	5.7	7.0	2.6	11.2	8.1	15.0
29	23.1		32.0	18.3	10.0	6.5	6.0	6.5	2.5	10.0	7.7	12.2
30	19.3		27.6	15.0	9.6	6.0	6.7	7.0	2.5	9.0	7.5	10.9
31	15.5		25.2		9.4		5.8	6.8		8.8		9.8

1899.

1	8.9	8.0	20.5	26.9	7.8	10.3	7.0	6.6	2.5	2.4	2.2	6.9
2	9.8	7.0	20.4	23.6	7.6	11.8	7.5	5.8	2.1	2.3	2.8	5.8
3	10.0	6.8	20.0	19.4	7.5	11.4	6.8	6.6	2.0	2.2	3.4	5.5
4	10.8	11.5	18.1	16.1	7.3	10.2	6.5	6.4	2.3	2.7	3.8	5.3
5	11.9	13.5	21.9	13.6	7.1	9.7	6.2	6.4	2.9	3.1	3.8	5.1
6	12.7	12.0	26.5	11.8	7.4	9.1	5.7	6.4	3.7	2.9	7.8	5.2
7	20.0	15.5	28.0	11.0	8.2	8.4	5.4	6.5	3.6	2.9	7.4	5.9
8	23.0	14.4	29.0	13.1	8.5	7.8	4.8	7.0	3.6	2.8	7.0	6.6
9	22.9	11.0	25.4	15.0	8.5	7.5	4.4	7.0	4.0	3.0	6.6	6.6
10	20.6	Frozen.	20.8	16.3	8.3	7.6	4.2	6.4	4.5	2.9	6.3	6.5
11	16.1	9.0	17.8	17.7	7.6	8.0	4.4	5.9	4.4	2.8	5.8	6.3
12	13.0	8.5	15.5	16.4	9.8	7.5	4.3	5.7	4.4	2.6	5.5	6.6
13	11.8	8.0	15.0	14.8	9.9	7.2	5.0	5.8	4.5	2.5	5.3	8.9
14	15.5	6.0	14.3	13.0	9.3	6.8	5.2	6.2	4.9	2.4	5.0	10.0
15	18.8	6.5	12.7	10.3	8.0	7.8	4.8	5.4	6.8	2.4	4.9	16.8
16	22.0	6.8	12.0	10.0	8.7	7.5	4.6	4.5	6.2	2.2	5.1	17.0
17	26.0	7.2	11.0	10.7	8.0	6.8	4.7	4.7	5.6	2.1	5.0	15.5
18	26.6	7.4	10.7	11.0	8.0	6.8	6.6	4.1	4.0	2.0	5.9	13.2
19	23.0	9.2	10.9	10.6	9.2	7.8	6.8	3.7	3.6	2.0	6.0	13.2
20	19.0	12.7	14.8	9.8	18.0	7.7	8.3	3.3	3.3	1.9	7.2	12.0
21	15.2	16.2	15.9	9.5	20.0	7.5	8.8	3.0	2.8	1.7	7.4	13.0
22	13.3	17.6	18.6	9.3	16.3	8.4	8.0	2.6	2.6	1.7	7.0	15.8
23	11.3	19.3	19.0	8.8	12.4	7.7	7.4	2.5	2.5	1.7	7.1	17.2
24	10.9	20.7	18.3	8.5	10.4	6.8	6.8	2.3	2.4	1.6	7.3	15.2
25	13.5	20.9	17.9	8.3	9.3	6.4	6.1	2.2	2.2	1.6	7.1	13.2
26	13.2	18.5	17.9	8.2	8.4	7.8	5.4	2.1	2.0	1.5	7.0	11.8
27	13.2	18.2	17.5	8.2	7.4	7.3	5.4	2.0	1.9	1.5	7.5	11.0
28	13.8	18.6	17.3	8.3	7.0	6.7	5.3	2.0	2.0	1.5	7.3	11.0
29	12.2		27.2	8.4	7.0	6.4	5.6	1.9	2.3	1.6	6.9	10.0
30	10.0		26.7	8.2	7.7	6.0	5.9	2.3	2.4	1.7	6.8	9.2
31	9.2		27.8		8.8		7.5	2.8		1.8		9.0

DAILY RIVER STAGES.

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*Ohio River system—Ohio River, Point Pleasant, W. Va.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.8	10.7	7.7	39.0	9.7	4.3	11.1	32.5	3.1	8.0	5.8	19.9
2	16.0	9.7	8.1	40.8	10.3	5.4	8.8	31.6	2.8	14.1	5.3	20.4
3	14.5	10.7	9.0	41.2	10.7	5.7	7.3	29.8	2.6	17.3	4.7	19.3
4	13.4	14.5	10.8	38.6	11.1	5.0	7.2	27.6	2.5	19.0	4.3	16.1
5	11.5	20.5	11.3	33.0	11.7	4.5	5.0	21.5	2.2	17.2	4.2	12.9
6	10.4	24.7	10.5	27.8	13.0	4.2	4.5	17.7	2.2	14.3	5.6	10.4
7	8.2	27.0	9.1	23.0	12.4	4.8	5.1	13.7	2.2	11.5	12.0	8.9
8	6.8	26.9	8.4	18.8	10.6	5.0	7.7	10.8	2.1	9.3	11.8	7.9
9	5.6	26.1	8.0	16.0	9.1	4.8	6.9	9.0	2.1	7.7	10.6	9.1
10	5.2	25.0	8.9	14.1	7.8	5.5	9.3	8.0	2.4	6.5	11.4	10.8
11	5.0	22.7	9.4	13.4	7.0	6.2	16.3	7.1	2.3	5.6	10.0	15.9
12	4.6	19.8	10.5	13.0	5.9	7.0	12.9	8.5	2.1	5.2	8.6	15.6
13	4.6	16.8	11.2	12.6	5.2	7.4	9.8	8.5	2.0	4.8	8.1	18.0
14	4.6	15.5	11.0	13.4	4.9	6.9	8.1	9.1	2.0	5.0	7.7	17.2
15	4.4	18.0	10.0	15.4	4.7	6.9	7.8	9.5	2.0	5.9	7.7	14.9
16	4.1	20.2	9.8	16.0	4.5	6.7	8.4	9.9	2.7	7.8	7.7	12.7
17	3.8	21.4	14.0	15.4	4.4	6.2	12.3	9.1	3.0	7.1	7.4	12.5
18	4.1	21.2	17.2	14.5	4.3	6.1	15.1	8.1	2.8	8.1	7.4	13.2
19	3.9	18.6	16.8	13.2	4.2	5.7	16.2	6.7	2.6	9.6	6.8	12.6
20	3.7	15.1	21.5	12.7	4.0	5.6	15.6	5.7	2.4	9.3	6.4	11.3
21	3.5	12.0	25.9	10.6	3.7	5.2	13.9	4.8	2.2	8.3	6.0	10.3
22	3.9	10.0	24.8	9.6	3.5	5.0	13.8	4.5	2.0	7.7	6.0	9.4
23	3.9	8.3	24.5	9.9	5.4	5.8	17.5	5.0	2.0	7.3	6.2	8.6
24	4.6	7.4	23.6	11.3	5.3	7.1	22.6	4.5	2.3	7.5	6.8	7.9
25	6.2	7.0	21.8	11.9	5.9	9.8	27.4	5.3	2.6	10.2	7.2	7.3
26	12.9	6.9	21.1	10.9	6.0	16.4	34.0	5.2	2.8	10.7	7.4	6.4
27	16.3	7.1	20.2	10.9	5.3	14.7	35.4	4.6	3.0	9.2	8.4	5.6
28	17.3	7.6	20.3	10.5	5.0	15.1	34.2	4.4	3.3	10.0	8.8	5.1
29	17.2	7.7	20.8	10.0	5.0	15.9	31.6	4.0	3.3	9.5	15.6	4.8
30	15.3	-----	25.9	10.1	5.0	14.0	29.7	3.5	3.0	8.1	20.5	4.4
31	12.9	-----	33.0	-----	4.7	-----	31.7	3.3	3.9	6.7	-----	4.3

1897.

1	4.1	3.5	28.1	15.1	7.7	5.0	5.5	9.2	2.6	1.0	1.0	13.3
2	5.3	4.6	19.3	13.6	10.2	4.8	6.6	8.5	2.4	1.3	0.9	12.8
3	7.0	10.5	14.5	12.2	15.3	4.7	14.6	7.4	2.2	1.5	0.9	10.9
4	8.3	13.0	14.8	11.1	18.0	4.6	14.0	6.7	2.2	1.6	0.9	9.1
5	9.1	11.4	15.2	12.2	18.5	4.2	8.7	6.1	2.1	1.4	0.9	8.7
6	9.7	10.8	17.6	12.6	19.2	4.0	5.5	6.1	2.0	1.3	1.1	9.7
7	10.2	23.4	25.5	12.9	18.3	4.0	4.9	5.1	2.0	1.2	1.5	11.1
8	10.2	34.0	30.8	12.5	16.1	4.8	4.5	4.5	2.0	1.2	1.5	10.2
9	10.6	38.3	33.5	13.4	14.2	5.7	5.1	4.8	1.9	1.0	2.3	14.0
10	10.4	34.4	33.0	20.7	13.1	5.9	5.1	5.7	1.8	1.0	2.2	12.9
11	9.5	30.8	32.4	24.6	12.0	8.2	4.4	5.5	1.7	0.9	2.9	10.6
12	8.4	27.0	31.6	25.7	12.5	7.9	3.8	4.7	1.7	1.2	3.0	8.7
13	7.5	25.6	30.2	26.0	16.1	7.6	3.9	4.4	1.7	1.0	2.9	8.5
14	7.3	25.9	29.0	23.6	22.3	7.6	6.7	4.1	1.4	0.9	2.9	7.2
15	6.8	25.1	27.5	21.5	28.0	7.0	5.9	3.9	1.4	1.7	3.8	7.4
16	6.3	23.5	26.2	22.1	27.0	5.7	4.9	3.8	1.3	2.1	4.3	8.4
17	6.1	22.0	23.6	22.0	25.0	6.8	4.6	4.2	1.3	1.6	5.1	11.6
18	7.5	19.8	21.2	21.6	21.6	8.1	5.0	4.2	1.2	1.2	6.7	15.6
19	7.0	19.0	20.6	20.8	17.6	7.8	6.6	3.8	1.0	1.1	8.6	18.7
20	7.6	18.0	22.1	18.6	14.0	8.8	6.9	3.5	0.9	1.0	9.5	18.8
21	8.1	19.5	24.9	15.9	11.7	14.4	5.8	3.4	0.8	0.9	9.3	18.5
22	9.8	30.2	25.9	13.7	10.0	13.2	7.9	6.3	0.8	0.9	8.3	19.1
23	10.8	45.0	25.8	12.0	8.9	10.5	13.2	6.0	0.8	0.9	7.1	19.0
24	10.3	50.9	24.7	10.7	8.2	8.0	14.6	5.2	0.8	1.7	6.0	17.7
25	9.6	52.3	24.5	9.6	7.6	6.6	16.5	4.2	0.8	1.7	5.3	17.1
26	8.9	50.5	25.5	8.9	7.3	6.2	17.5	3.9	0.8	1.4	4.7	14.6
27	7.4	46.4	24.2	8.4	6.7	5.6	15.2	3.7	0.8	1.1	4.3	11.8
28	6.1	38.1	23.4	8.1	6.3	5.0	16.2	3.5	0.8	1.0	6.0	9.4
29	5.2	-----	21.7	8.0	6.2	4.1	13.6	3.0	0.8	1.0	8.0	7.8
30	3.5	-----	19.3	7.9	5.7	3.7	11.8	3.0	1.1	1.0	9.2	6.9
31	3.0	-----	17.0	-----	5.4	-----	10.5	2.9	-----	1.0	-----	6.6

DAILY RIVER STAGES.

Ohio River system—Ohio River, Point Pleasant, W. Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.9	18.0	13.5	39.0	17.1	9.3	4.1	5.0	5.7	2.0	8.5	6.6
2	9.1	14.4	12.0	36.5	13.9	8.0	3.8	4.9	5.2	1.8	8.0	6.4
3	8.8	11.5	10.8	31.5	11.6	7.5	3.4	5.8	4.6	1.8	7.4	6.4
4	7.5	9.7	10.1	25.7	9.9	6.7	4.1	6.3	4.2	2.4	6.6	6.5
5	8.2	8.2	9.5	20.7	8.8	6.0	4.4	8.6	3.6	2.3	6.0	7.4
6	8.0	7.4	9.1	17.4	7.9	5.3	4.0	12.7	4.1	2.3	5.6	11.2
7	9.0	6.9	8.9	15.5	8.7	4.7	3.9	13.4	4.9	3.8	5.7	12.8
8	12.5	6.2	8.7	14.1	13.1	4.2	3.4	11.8	5.5	4.1	6.3	12.2
9	12.1	7.1	8.4	13.0	16.3	3.9	2.9	12.7	5.0	3.2	7.9	12.0
10	18.5	8.0	8.3	11.9	15.4	3.6	2.6	18.2	4.7	2.7	9.7	10.5
11	27.0	9.3	8.2	11.0	14.6	3.8	2.3	29.5	3.7	2.6	14.5	9.2
12	27.9	10.5	8.2	10.6	14.2	3.4	2.2	30.9	3.4	2.5	17.8	7.8
13	27.3	13.3	8.4	11.4	12.8	3.5	2.2	27.1	3.0	2.4	18.7	6.4
14	27.4	18.7	8.8	12.6	12.1	4.1	2.2	23.9	3.3	2.8	22.0	6.0
15	28.5	22.9	10.4	11.9	12.1	4.9	2.1	19.3	3.3	3.1	21.9	5.4
16	33.3	24.5	12.3	12.2	12.5	5.8	2.3	15.1	2.9	3.0	19.5	4.4
17	36.0	24.0	14.5	14.0	16.4	7.5	2.1	12.4	2.6	2.7	16.5	3.9
18	34.7	21.7	18.5	13.9	20.0	8.1	2.3	9.8	2.5	2.6	13.9	4.3
19	31.9	19.6	20.6	13.9	20.6	7.0	3.9	8.3	2.3	3.1	12.3	6.0
20	28.5	18.1	20.8	14.6	21.8	7.2	3.7	8.5	2.0	5.2	12.5	10.3
21	25.8	19.3	24.2	13.1	20.3	6.5	3.4	10.9	1.9	7.9	14.5	15.6
22	24.1	23.5	30.4	11.6	18.0	9.0	3.3	15.4	1.7	7.6	14.1	17.0
23	29.5	25.8	33.9	10.2	16.3	9.0	3.3	17.1	1.7	14.2	12.3	21.2
24	35.0	26.0	37.6	9.1	18.0	7.2	3.5	15.0	1.7	20.0	11.9	25.0
25	35.9	24.7	44.9	9.0	19.6	5.4	4.0	11.9	4.5	21.2	11.9	27.0
26	37.0	22.2	49.5	14.3	18.6	4.9	4.4	9.3	5.6	20.5	10.8	27.0
27	37.0	18.6	51.2	20.8	17.1	4.9	5.0	7.5	4.0	17.8	9.6	24.5
28	37.0	15.9	50.2	23.0	14.9	4.1	4.7	6.3	2.9	15.0	8.7	20.8
29	31.7		47.2	23.1	13.0	5.5	4.6	5.6	2.3	12.6	7.9	17.0
30	27.3		44.4	20.8	11.6	4.9	5.6	5.0	1.8	10.3	7.2	13.8
31	22.5		41.0		10.3		5.5	5.5		9.4		11.7

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.9	9.1	27.7	37.0	8.8	10.4	4.5	6.0	2.3	1.7	1.2	4.3
2	10.7	6.5	28.0	33.5	8.1	12.8	5.4	4.8	2.6	1.6	1.2	4.0
3	10.7	6.5	26.9	28.8	7.7	14.6	5.7	7.8	2.1	1.7	1.6	3.8
4	11.6	11.0	25.9	23.8	7.4	13.6	5.3	6.8	2.0	1.6	2.5	3.6
5	13.8	20.8	36.0	19.6	7.2	11.7	5.0	5.0	2.3	1.5	3.0	3.5
6	15.5	25.0	45.6	16.5	6.9	10.2	4.5	4.7	2.6	1.8	5.2	3.4
7	29.0	26.4	47.2	15.4	7.8	8.7	3.9	6.8	3.0	1.9	6.5	3.4
8	34.0	26.5	44.7	14.6	8.5	7.5	3.6	6.5	3.0	1.9	6.0	3.6
9	32.9	23.2	39.7	17.4	10.1	6.6	3.4	4.9	3.3	1.9	4.9	4.0
10	29.7	17.0	33.9	20.2	14.4	6.4	3.2	5.0	3.3	2.0	4.1	6.3
11	25.1	12.8	28.3	22.0	15.2	6.5	3.2	4.5	3.2	2.0	3.7	4.0
12	20.0	10.2	23.9	22.2	13.0	6.7	3.2	4.2	3.4	2.0	3.5	3.7
13	16.5	9.0	21.0	20.5	14.3	7.0	3.2	3.9	3.4	2.0	3.3	4.4
14	20.6	8.0	19.4	18.2	14.4	8.1	3.4	3.8	3.2	1.9	3.4	9.2
15	25.3	7.2	17.8	16.2	14.5	9.5	3.6	3.9	3.3	1.8	3.2	13.3
16	26.1	6.0	16.0	15.1	13.5	11.4	3.5	3.9	4.4	1.6	2.9	18.5
17	29.1	6.4	15.5	14.5	11.8	10.2	3.6	3.3	4.0	1.4	2.9	18.0
18	31.0	7.5	16.4	13.7	10.3	8.4	3.7	3.3	3.5	1.4	3.5	16.0
19	30.0	11.2	15.6	12.8	10.1	7.4	5.1	3.1	3.0	1.4	3.6	13.2
20	26.4	18.4	20.3	11.9	10.8	7.5	5.3	2.7	2.3	1.3	3.7	11.9
21	22.1	22.0	26.3	11.1	19.7	6.9	7.0	2.4	2.3	1.3	4.9	12.4
22	18.2	24.7	27.2	10.4	20.6	6.1	7.6	2.2	2.7	1.2	5.3	14.0
23	14.9	26.5	26.8	9.6	17.4	7.5	6.6	2.1	2.8	1.2	5.1	16.9
24	13.0	27.9	25.7	9.0	13.4	6.6	5.6	2.0	2.5	1.2	4.6	17.4
25	17.4	27.6	24.0	8.4	10.6	5.8	4.9	2.0	2.2	1.2	4.8	16.3
26	19.6	25.7	23.0	7.9	9.2	6.3	4.3	2.0	2.0	1.2	4.6	14.6
27	18.2	24.1	22.6	8.0	8.0	7.3	3.9	1.9	1.8	1.1	4.5	12.6
28	17.3	24.3	22.7	8.9	7.0	6.2	3.7	1.8	1.8	1.1	5.5	11.1
29	16.5		33.8	9.6	6.3	5.7	3.7	1.7	1.6	1.1	5.5	11.4
30	14.1		40.5	9.4	5.8	5.0	4.5	1.7	1.5	1.1	4.7	9.0
31	11.4		39.5		6.3		6.1	1.7		1.1		7.3

DAILY RIVER STAGES.

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*Ohio River system—Ohio River, Huntington, W. Va.***1899.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1												7.4
2												7.0
3												6.8
4												6.3
5												6.2
6												6.1
7												6.0
8												6.0
9												6.6
10												7.3
11												8.0
12												6.7
13												6.6
14												10.8
15												14.1
16												20.2
17												21.3
18												19.9
19												17.6
20												15.6
21												15.6
22												16.8
23												19.1
24												20.6
25												20.2
26												18.8
27												16.9
28												15.2
29												14.4
30												13.6
31												12.0

DAILY RIVER STAGES.

Ohio River system—Ohio River, Catlettsburg, Ky.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.8	15.0	10.3	44.0	13.1	6.0	17.3	36.0	4.6	6.7	8.9	27.5
2	20.0	13.2	10.4	46.5	13.0	6.0	13.8	36.4	4.5	13.5	8.0	24.5
3	19.8	13.7	10.8	46.5	13.8	7.4	11.5	35.0	4.0	19.0	6.6	24.2
4	17.4	17.5	12.6	44.7	14.1	7.3	9.3	33.2	3.9	22.5	6.2	23.0
5	16.2	22.6	13.7	40.5	14.5	6.7	8.2	29.0	3.8	21.7	5.8	19.0
6	14.0	27.5	14.5	35.5	15.7	6.0	7.1	23.5	3.6	19.3	5.5	15.2
7	12.6	31.0	12.7	30.0	16.1	5.8	6.5	19.0	3.5	16.3	10.8	13.0
8	11.8	31.9	11.5	25.4	15.5	6.3	8.6	15.5	3.2	13.5	15.8	12.0
9	9.3	31.0	11.0	21.6	13.0	6.5	10.9	13.7	3.0	12.5	14.2	10.9
10	8.4	30.0	11.7	19.0	11.7	6.5	12.4	14.0	2.8	10.2	12.7	15.8
11	7.7	28.1	12.6	17.7	10.1	7.8	19.4	11.7	2.6	8.2	14.0	20.3
12	6.9	25.5	13.4	16.9	9.0	8.6	19.0	10.7	2.6	7.5	12.5	20.3
13	6.5	23.5	14.1	16.5	8.0	9.5	15.5	10.4	2.4	7.0	11.4	21.5
14	6.6	21.2	14.9	16.3	7.0	9.5	12.5	12.0	2.4	6.5	10.8	22.0
15	6.7	22.0	14.1	18.0	6.4	9.1	11.3	12.5	2.3	6.9	10.5	20.0
16	6.3	24.6	14.5	19.6	6.2	9.1	11.0	12.6	3.4	9.0	10.0	18.0
17	5.7	25.5	21.6	19.4	5.9	8.7	13.5	12.4	4.1	10.5	9.7	15.8
18	5.1	25.6	26.5	18.7	5.6	8.3	18.2	11.5	3.8	9.8	10.3	15.8
19	5.8	24.5	25.1	17.5	5.6	8.0	19.3	10.0	3.6	11.9	9.8	18.0
20	5.7	20.8	27.8	16.1	5.6	7.5	20.0	8.5	3.6	12.4	9.4	16.5
21	5.4	17.9	31.5	15.7	5.0	7.3	18.5	7.2	3.5	11.5	8.8	14.9
22	5.2	14.2	30.8	13.5	4.6	6.8	18.0	6.5	3.4	10.8	8.2	13.3
23	5.6	12.2	30.0	12.6	4.4	6.8	18.5	6.9	3.2	10.0	7.8	12.0
24	6.0	10.8	29.2	13.7	7.5	7.8	25.0	8.0	3.0	9.5	8.3	11.6
25	7.7	10.1	27.5	14.9	7.5	9.9	29.0	9.8	3.7	11.8	9.5	10.5
26	12.6	9.8	26.5	14.7	8.3	18.0	36.0	10.0	4.0	13.7	9.9	9.5
27	17.8	9.4	26.2	14.1	9.3	20.9	38.5	8.8	4.5	13.1	9.6	8.3
28	19.9	9.7	24.7	14.0	7.4	20.3	38.5	8.0	5.0	12.5	11.5	7.6
29	20.7	10.3	26.4	13.6	6.7	21.6	36.5	6.5	5.2	12.9	19.3	6.9
30	19.6	-----	30.0	13.2	6.6	20.8	33.8	5.8	5.5	12.1	26.5	6.5
31	17.4	-----	38.0	-----	6.5	-----	35.0	5.0	-----	10.4	-----	6.0

1897.

1	6.0	6.2	40.0	20.3	10.8	7.3	5.2	13.2	3.4	0.9	2.0	13.9
2	6.1	8.7	29.6	18.4	12.6	6.7	8.2	12.0	3.3	0.9	2.0	16.5
3	7.8	13.5	24.5	16.7	19.4	6.7	11.8	10.7	3.3	1.4	2.0	16.0
4	9.9	18.5	19.5	15.4	24.0	6.2	18.5	9.5	3.1	1.8	1.9	13.0
5	11.2	17.8	19.5	15.5	24.8	5.8	15.8	9.0	3.0	2.0	1.8	12.0
6	12.3	16.5	20.8	22.0	24.6	5.4	10.2	8.3	2.8	2.0	1.7	11.5
7	12.3	28.0	27.5	20.4	24.0	5.0	8.3	8.0	2.6	1.9	1.9	13.0
8	13.0	37.5	31.2	18.7	22.0	5.0	7.5	6.6	2.4	1.8	2.4	13.5
9	13.2	41.2	40.2	18.8	19.5	7.2	6.9	6.0	2.4	1.7	2.8	15.5
10	13.4	40.5	42.0	24.3	17.9	8.8	6.5	6.8	2.3	1.6	3.5	16.5
11	12.4	39.8	43.0	29.8	16.4	9.5	6.5	7.8	2.2	1.5	3.5	14.5
12	11.9	32.1	41.2	31.3	16.2	11.0	6.0	7.2	2.0	1.4	3.9	12.1
13	10.9	31.7	38.0	31.3	18.7	10.4	5.5	6.0	1.9	1.6	4.0	10.7
14	10.3	31.2	36.8	29.5	25.3	10.0	7.5	5.8	1.9	1.6	3.7	9.5
15	9.5	31.0	35.9	27.9	33.7	10.0	8.7	5.2	1.8	1.5	3.4	9.2
16	9.0	29.8	34.6	27.9	33.0	9.0	7.7	4.9	1.7	1.4	4.5	9.9
17	8.7	27.9	31.7	28.7	31.1	7.8	6.8	4.8	1.6	2.4	5.8	10.7
18	10.2	25.8	28.6	27.2	28.0	11.2	6.5	5.5	1.6	2.4	6.8	15.0
19	9.8	25.0	27.4	26.4	25.3	11.8	7.5	5.5	1.5	2.1	6.8	21.0
20	9.7	22.9	28.1	24.5	20.0	12.0	9.0	4.5	1.4	1.9	10.0	22.0
21	9.7	24.1	31.5	21.7	16.7	17.6	8.7	4.3	1.4	1.8	11.8	22.0
22	12.0	37.5	32.9	19.0	14.3	19.8	8.3	6.5	1.3	1.7	11.2	22.3
23	14.3	52.4	32.2	16.9	12.7	17.0	13.5	8.3	1.2	1.5	10.0	22.8
24	14.5	56.0	31.2	15.1	12.0	13.2	18.0	7.8	1.2	1.6	8.5	21.5
25	13.5	58.5	30.2	13.6	10.9	11.8	20.7	6.9	1.2	2.1	7.4	20.8
26	12.2	56.5	30.2	12.3	10.1	10.5	23.2	6.0	1.1	2.6	6.4	19.1
27	11.4	53.5	29.7	12.0	9.7	9.0	21.8	5.1	1.0	2.2	6.0	16.4
28	10.0	47.5	28.8	11.5	9.0	8.0	20.7	4.7	1.0	2.0	5.8	13.7
29	9.2	-----	27.3	11.2	8.5	7.0	19.5	4.1	0.9	1.8	8.5	11.3
30	7.8	-----	25.0	10.8	8.0	6.2	16.5	4.0	0.9	1.8	10.3	9.9
31	6.9	-----	22.4	-----	7.5	-----	14.6	3.5	-----	2.2	-----	9.0

DAILY RIVER STAGES.

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Ohio River system—Ohio River, Catlettsburg, Ky.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	10.5	25.2	18.5	47.5	22.5	13.0	7.0	8.8	7.5	1.5	11.8	9.0
2.....	12.3	20.2	16.1	45.5	19.4	11.7	5.7	8.9	7.6	1.2	10.8	8.7
3.....	11.5	16.1	14.5	38.9	16.2	10.6	4.9	8.5	6.8	1.0	10.0	8.5
4.....	10.5	13.5	13.5	34.3	13.8	9.7	4.5	9.0	6.2	1.5	9.3	9.7
5.....	10.1	12.0	12.9	28.8	12.4	8.7	5.6	10.2	5.7	3.0	8.5	10.3
6.....	10.6	11.0	12.5	24.0	11.2	7.9	5.6	16.4	4.9	3.1	7.5	11.9
7.....	11.1	9.7	11.9	21.5	12.9	7.0	5.7	17.9	5.4	2.7	7.6	15.7
8.....	14.1	9.0	11.7	19.8	15.9	6.0	5.4	17.0	7.3	5.0	7.9	16.3
9.....	16.1	9.3	11.3	18.2	21.0	5.6	4.5	16.5	7.5	5.2	9.0	15.9
10.....	20.3	10.0	11.0	16.8	21.0	5.2	4.0	23.9	7.0	4.6	11.0	14.7
11.....	28.5	11.4	10.8	15.5	19.3	5.0	3.8	37.0	6.2	3.8	16.0	12.0
12.....	31.2	13.0	10.8	15.1	18.6	4.9	3.8	40.5	5.1	3.6	20.5	11.3
13.....	32.3	15.5	10.8	15.8	17.4	4.4	3.6	36.5	4.5	3.4	21.7	10.0
14.....	31.9	20.0	11.2	17.1	16.0	4.8	3.4	31.0	4.1	3.0	24.3	8.5
15.....	33.0	25.0	12.4	17.0	15.6	5.9	3.3	26.5	4.4	3.5	25.7	7.8
16.....	38.0	27.8	14.5	16.5	15.7	6.9	3.3	21.5	4.2	4.0	24.2	7.0
17.....	40.1	28.2	17.3	17.7	18.8	8.5	4.0	17.0	3.7	3.6	21.5	5.8
18.....	40.0	26.7	22.5	18.5	22.3	10.0	4.7	14.7	3.4	3.0	18.5	5.5
19.....	37.6	24.5	27.4	17.7	24.7	10.4	5.5	12.5	3.0	4.0	16.3	6.5
20.....	34.5	22.3	27.4	18.4	25.7	11.0	6.9	11.8	2.9	4.4	15.5	9.5
21.....	32.2	23.5	27.2	17.7	25.2	10.9	7.0	12.6	2.6	7.3	17.4	15.6
22.....	30.0	26.8	34.7	16.0	22.7	10.7	6.3	16.4	2.0	10.9	18.0	20.9
23.....	35.6	29.6	38.3	14.2	20.7	12.3	6.0	20.2	2.0	11.5	17.0	23.4
24.....	40.5	30.5	41.6	12.7	20.9	11.0	5.9	19.5	1.9	21.5	15.1	26.2
25.....	41.9	29.7	48.1	12.3	24.5	9.0	6.0	16.8	3.7	23.7	15.4	28.7
26.....	43.4	27.5	53.1	13.8	24.1	7.7	6.6	13.9	7.0	24.5	14.7	30.4
27.....	43.5	24.5	56.0	22.5	22.4	6.8	7.2	11.3	6.8	22.3	13.1	29.3
28.....	41.7	21.3	56.0	26.1	20.0	6.7	7.4	9.3	5.0	21.6	12.1	26.5
29.....	38.5	.....	54.7	27.2	17.5	6.0	7.2	8.4	3.4	17.0	11.2	23.5
30.....	34.3	.....	52.3	26.0	15.8	7.4	7.7	7.4	2.4	14.8	10.0	21.8
31.....	29.5	.....	50.0	.....	14.2	.....	8.4	7.2	.....	13.0	.....	15.9

1899.

1.....	14.0	14.0	32.5	44.6	12.5	10.5	6.5	8.0	1.5	1.2	0.8	5.8
2.....	14.5	12.5	33.3	41.0	11.7	14.2	5.4	7.0	1.4	1.0	1.1	5.3
3.....	15.0	11.5	32.4	36.9	10.9	17.0	7.2	6.4	2.4	1.3	1.3	4.8
4.....	16.0	15.0	33.5	32.0	10.4	17.2	7.3	10.1	2.0	1.4	1.5	4.5
5.....	17.5	26.0	44.5	26.9	10.0	15.8	6.7	8.3	1.7	1.3	2.6	4.2
6.....	19.7	33.5	54.0	22.8	9.5	12.9	6.1	7.0	2.1	1.1	3.8	4.0
7.....	34.0	35.8	55.9	20.0	9.6	12.5	5.3	7.7	2.7	1.3	7.2	3.9
8.....	40.5	36.0	52.4	20.2	10.9	10.7	4.7	9.1	3.4	1.4	8.8	3.9
9.....	39.0	32.5	48.1	22.5	12.5	9.1	4.3	7.4	3.6	1.6	7.0	4.6
10.....	36.4	29.0	42.9	25.2	16.9	8.6	4.0	6.4	3.7	1.7	5.8	5.2
11.....	32.5	24.0	36.9	27.1	21.1	8.3	3.8	6.3	3.8	1.5	4.9	6.7
12.....	27.5	21.0	31.5	27.7	19.0	8.6	3.6	5.7	3.7	1.4	4.5	4.8
13.....	23.4	18.0	27.5	26.4	18.3	8.5	3.5	5.3	3.8	1.4	4.0	4.6
14.....	27.7	16.0	24.9	24.0	19.4	10.2	3.4	5.0	3.5	1.6	3.9	8.5
15.....	31.5	12.5	23.0	21.9	19.6	12.7	3.8	4.9	3.3	1.5	3.8	12.7
16.....	32.4	11.0	21.2	19.9	19.0	16.0	4.0	5.3	3.9	1.4	3.5	19.5
17.....	33.8	7.5	20.0	18.8	17.1	15.2	4.3	4.6	5.3	1.2	3.2	21.3
18.....	34.8	8.7	20.9	18.0	14.8	13.0	4.6	4.1	4.7	1.1	3.1	19.9
19.....	35.8	15.3	22.3	17.0	13.2	11.0	4.8	3.9	3.9	1.1	4.1	17.5
20.....	32.5	21.5	28.0	16.0	12.7	10.1	6.7	3.7	3.2	1.0	4.4	15.2
21.....	29.0	28.0	33.0	15.1	20.4	9.8	7.2	3.4	2.8	1.0	4.8	15.0
22.....	24.9	30.6	33.4	14.1	23.8	8.7	9.4	3.1	2.5	0.9	6.1	16.9
23.....	20.7	31.5	33.3	13.0	22.5	8.8	9.0	2.8	2.3	0.9	7.6	18.5
24.....	18.0	32.5	32.5	12.5	18.8	9.3	8.1	2.6	2.5	0.9	6.1	19.9
25.....	23.3	32.4	30.5	11.7	15.3	8.5	7.0	2.5	2.6	0.9	5.7	20.0
26.....	26.2	31.0	28.9	11.0	13.0	7.8	6.0	2.3	2.4	0.9	5.7	18.8
27.....	25.5	30.6	28.0	10.6	11.5	8.8	5.3	2.2	2.0	1.0	5.6	16.8
28.....	23.0	30.5	29.3	11.1	10.0	9.1	4.5	2.0	1.8	0.9	6.0	15.0
29.....	22.0	.....	40.5	12.8	8.9	8.0	3.7	1.9	1.5	0.8	7.0	13.6
30.....	19.5	.....	48.9	13.2	8.2	7.4	4.9	1.8	1.3	0.8	6.4	12.7
31.....	17.3	.....	47.9	.....	9.7	.....	6.0	1.6	.....	0.8	.....	10.0

156.3 at 4 a. m.

249.0 at 11 a. m.

DAILY RIVER STAGES.

Ohio River system—Ohio River, Portsmouth, Ohio.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.0	16.5	11.3	42.6	14.4	7.5	19.3	37.4	6.3	9.7	10.3	28.0
2	21.4	14.9	11.3	45.5	14.0	7.1	16.0	38.0	5.9	13.8	9.2	26.5
3	19.6	13.9	11.7	46.5	14.0	7.8	13.3	36.9	5.4	20.4	8.5	25.6
4	18.3	16.5	12.5	45.9	14.8	8.8	11.5	35.0	5.1	24.1	7.9	23.8
5	15.3	21.1	14.0	42.8	14.9	8.4	10.0	31.8	4.8	24.2	7.6	20.5
6	15.0	26.5	14.6	38.5	15.5	7.6	8.9	26.7	4.5	21.5	7.6	17.0
7	13.4	30.5	13.9	33.3	16.5	7.5	7.9	21.7	4.5	18.7	9.0	14.9
8	11.8	32.5	12.6	28.0	16.0	7.5	8.0	18.0	4.4	15.8	15.3	13.0
9	10.4	32.1	12.1	23.9	14.5	8.2	11.3	16.4	4.3	13.4	15.3	13.0
10	9.3	31.3	12.5	20.7	13.8	8.9	12.4	15.4	4.2	11.6	14.6	15.5
11	8.6	29.5	13.1	18.8	11.5	9.0	17.0	13.6	4.4	10.2	14.6	20.1
12	7.9	27.1	13.7	17.6	10.5	9.8	19.8	12.4	4.6	9.4	13.9	21.5
13	7.4	24.4	14.6	17.1	9.8	10.4	17.5	13.0	4.4	8.8	12.9	21.8
14	7.0	23.1	15.2	17.0	8.7	10.6	14.7	13.4	4.1	8.3	12.4	22.5
15	7.0	23.0	15.2	17.6	7.8	10.4	12.6	13.4	4.0	8.3	11.8	21.5
16	7.0	25.0	14.5	19.3	7.5	10.3	12.4	13.4	4.4	9.1	11.7	19.3
17	6.6	26.0	18.0	19.7	7.3	10.3	13.9	13.4	5.3	11.1	11.6	17.3
18	6.2	26.4	26.0	19.2	7.2	9.9	17.2	12.6	5.3	10.9	11.3	17.0
19	6.2	25.3	26.0	18.3	7.2	9.7	19.4	11.5	4.9	10.5	11.0	17.8
20	6.4	22.5	29.0	17.1	6.9	9.1	20.0	10.3	4.5	12.7	10.5	17.3
21	6.1	19.0	32.0	15.9	6.7	8.8	20.0	9.0	4.3	12.6	10.0	16.0
22	5.9	15.9	32.5	14.5	6.4	8.4	21.0	8.0	4.1	11.8	9.5	14.8
23	5.9	13.9	31.5	13.6	6.1	8.1	20.0	8.1	3.9	11.2	9.5	13.5
24	6.4	12.4	30.8	14.2	7.8	9.2	23.8	8.5	3.9	10.9	9.8	12.7
25	7.5	11.5	29.5	15.3	8.5	11.3	27.8	10.3	4.6	11.8	10.4	11.9
26	11.2	10.9	28.3	15.6	9.0	15.7	34.4	11.5	4.8	13.5	10.8	11.1
27	17.2	10.6	27.5	15.0	9.3	21.1	38.5	10.6	5.3	14.1	11.0	10.1
28	20.3	10.6	26.5	14.8	9.3	20.9	39.8	9.4	5.7	13.0	12.5	9.3
29	21.4	11.1	26.9	14.5	8.5	21.5	38.3	8.4	5.8	13.3	19.5	8.6
30	20.9	-----	29.5	14.1	8.1	21.9	36.5	7.4	6.8	12.9	26.5	8.1
31	18.9	-----	36.9	-----	7.9	-----	36.5	6.8	-----	11.6	-----	7.6

1897.

1	7.5	5.7	45.4	21.9	12.0	8.9	7.0	14.2	5.0	2.3	2.0	13.0
2	7.7	7.9	36.4	19.9	13.4	8.5	8.3	13.0	4.8	2.2	1.9	16.0
3	8.8	13.5	27.4	18.3	19.5	8.0	10.0	12.0	4.5	2.2	1.8	15.9
4	10.5	18.5	24.3	16.9	25.5	7.7	17.7	11.0	4.3	2.4	1.8	14.3
5	11.8	19.0	22.2	18.1	26.5	7.6	16.9	10.2	4.1	2.5	1.8	13.5
6	12.8	18.5	24.0	23.4	26.0	7.4	13.0	9.4	4.0	2.6	1.8	12.7
7	13.5	28.5	29.0	22.0	25.3	7.1	10.3	9.1	3.9	2.5	1.8	13.0
8	13.8	36.9	36.0	20.0	23.5	7.0	9.1	8.5	3.8	2.3	2.2	14.0
9	13.7	41.8	41.5	21.5	21.0	7.7	8.4	7.5	3.7	2.2	3.0	14.3
10	14.0	42.4	44.8	26.4	19.3	9.0	8.2	7.4	3.5	2.0	4.0	16.6
11	13.7	39.8	45.6	30.9	18.0	9.9	8.2	8.4	3.3	1.9	4.3	15.8
12	13.0	36.5	44.5	32.1	19.3	11.5	7.7	8.5	3.2	1.8	4.0	13.5
13	12.0	34.3	41.5	32.3	22.3	11.4	7.4	7.6	3.2	1.8	4.5	12.0
14	11.5	32.8	39.1	31.4	25.3	11.3	7.7	7.1	3.0	1.9	4.5	10.8
15	10.8	32.3	37.8	29.9	32.0	11.2	9.8	6.9	3.0	1.8	4.4	10.5
16	10.3	31.0	36.5	30.5	34.0	10.7	9.3	6.3	2.8	1.8	5.0	10.8
17	10.0	29.4	34.0	29.8	32.5	10.3	8.3	6.1	2.6	2.9	6.6	11.9
18	9.5	27.8	32.3	28.5	30.1	11.9	8.0	6.6	2.5	3.0	8.2	15.0
19	11.3	26.2	31.3	27.6	26.3	12.7	8.4	6.8	2.3	2.5	9.9	19.7
20	11.6	24.5	31.8	26.0	22.1	12.9	9.5	6.4	2.3	2.2	11.7	22.3
21	12.0	25.5	33.4	23.5	18.8	15.8	10.1	6.0	2.3	2.0	12.5	23.0
22	13.5	37.0	34.6	20.9	16.0	19.7	9.9	6.0	2.0	1.8	12.3	23.0
23	14.7	51.8	34.0	18.5	14.4	18.5	12.2	8.6	2.0	1.8	11.4	23.2
24	15.2	57.4	32.5	16.6	13.4	15.8	17.9	9.0	2.0	1.7	10.2	22.5
25	14.6	59.0	31.5	15.0	12.4	12.8	19.8	8.4	1.9	1.8	9.0	21.3
26	13.7	58.1	31.5	14.1	11.7	11.6	23.0	7.7	1.9	2.5	8.0	20.0
27	12.5	56.1	31.0	13.5	11.3	10.7	23.0	7.0	1.9	2.5	7.5	18.0
28	10.2	52.0	30.0	13.0	10.7	9.8	21.2	6.4	1.9	2.3	7.7	15.1
29	10.0	-----	28.8	12.6	10.1	8.8	20.5	5.8	1.9	2.0	9.5	12.9
30	8.5	-----	26.6	12.3	9.8	7.7	17.9	5.5	2.3	1.9	11.6	11.3
31	6.5	-----	24.2	-----	9.2	-----	15.8	5.2	-----	2.0	-----	10.2

DAILY RIVER STAGES.

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Ohio River system—Ohio River, Portsmouth, Ohio—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.9	28.0	20.5	50.5	24.5	14.5	8.4	10.2	8.4	3.6	12.5	10.3
2	12.7	23.2	18.0	47.6	21.5	13.3	7.5	10.3	8.5	3.0	11.5	9.8
3	12.7	18.9	16.3	43.8	18.3	12.0	6.8	10.0	8.2	2.9	10.9	9.4
4	12.0	15.8	15.0	38.8	15.7	11.2	6.0	10.3	7.5	2.9	10.3	9.4
5	11.3	14.0	14.3	33.0	14.0	10.3	6.0	11.0	7.0	3.3	9.7	11.3
6	11.4	12.4	13.6	27.4	12.8	9.5	7.0	14.8	6.5	3.6	8.9	12.5
7	12.6	11.5	13.2	23.9	15.4	8.8	7.0	18.3	6.3	3.5	8.5	15.3
8	14.5	10.9	13.0	21.9	18.4	7.9	6.9	17.8	7.2	5.0	8.5	16.5
9	17.0	10.7	12.9	20.2	21.8	7.4	6.4	17.2	8.2	6.8	9.6	16.2
10	23.3	11.1	12.6	18.5	22.5	6.9	5.6	23.0	8.2	6.2	11.2	15.5
11	30.0	12.0	12.5	17.2	21.0	6.5	5.1	33.8	7.7	5.4	15.3	13.8
12	33.5	13.5	12.3	16.3	19.9	6.5	5.1	39.6	6.9	5.1	20.7	12.5
13	34.5	16.5	12.2	16.3	19.0	6.3	4.5	38.4	6.1	4.8	22.9	11.3
14	34.0	20.0	13.4	17.8	18.9	6.0	4.5	34.0	5.5	4.7	24.0	10.4
15	34.7	24.8	14.4	18.0	18.0	6.5	4.2	29.6	5.4	4.5	25.8	9.4
16	39.3	27.9	16.7	17.4	17.1	7.4	4.8	24.4	5.5	5.2	25.3	8.5
17	41.5	29.0	18.6	18.1	19.0	8.5	4.9	19.3	5.2	5.1	23.0	7.5
18	41.5	28.0	24.5	19.3	24.0	10.2	5.8	16.5	4.7	4.9	20.3	7.0
19	39.6	26.6	26.8	18.9	26.3	11.2	6.0	14.0	4.5	4.8	17.6	7.3
20	38.0	24.9	28.5	18.6	26.4	11.4	7.2	13.0	4.2	5.3	16.0	10.8
21	36.7	26.3	31.4	18.8	26.5	12.3	8.0	12.6	3.9	7.4	16.4	16.9
22	34.7	28.0	36.9	17.3	24.9	11.4	7.8	14.7	3.5	10.7	18.4	21.4
23	39.9	30.6	40.5	15.8	22.5	12.5	7.4	19.0	3.2	11.3	17.9	23.9
24	43.5	31.5	43.4	14.4	21.1	12.4	6.8	20.0	2.9	18.6	16.5	27.7
25	45.6	31.0	49.1	13.8	23.8	11.0	6.3	18.1	3.3	22.7	15.4	30.5
26	46.7	29.4	55.5	14.3	24.9	9.3	7.9	15.4	5.8	24.3	15.0	31.3
27	46.8	26.5	57.1	21.1	23.5	8.5	9.6	12.9	8.1	23.3	14.0	30.5
28	45.3	23.5	57.3	26.3	21.5	8.0	8.8	11.0	7.2	21.0	13.1	28.1
29	42.0	.....	56.4	27.5	19.1	7.7	8.5	9.7	5.8	18.2	12.0	25.0
30	37.8	.....	55.1	27.0	17.2	8.1	8.5	8.8	4.5	15.9	11.1	21.0
31	33.0	.....	53.2	.....	15.8	.....	9.5	8.2	.....	13.9	.....	17.8

1899.

1	16.3	16.1	33.4	47.0	13.8	9.9	8.0	8.1	2.3	2.6	2.2	7.0
2	16.0	13.8	34.5	44.0	13.0	13.5	7.3	8.6	2.5	2.8	2.3	6.5
3	15.8	12.4	35.0	40.5	12.3	16.4	7.6	7.7	3.2	2.9	2.4	6.1
4	15.9	15.8	34.6	35.6	11.6	17.6	8.3	9.8	3.2	3.0	2.5	5.8
5	17.8	25.4	43.5	30.3	11.4	17.0	8.0	10.3	2.9	2.8	3.3	5.5
6	20.6	33.0	52.4	25.7	11.1	15.3	7.5	8.8	2.8	2.7	4.2	5.3
7	31.0	35.9	55.8	22.0	10.6	13.9	7.1	7.7	3.2	2.6	6.2	5.2
8	39.5	36.5	54.7	21.8	11.5	12.3	6.4	9.8	3.7	3.0	8.5	5.1
9	40.2	34.8	51.4	24.0	12.8	10.9	6.0	9.8	4.0	3.1	8.8	5.3
10	38.0	29.0	46.8	25.8	15.6	10.0	5.5	8.1	4.3	3.1	7.4	5.9
11	34.7	23.0	41.3	27.5	20.5	9.7	5.3	7.8	4.5	3.1	6.4	7.0
12	30.5	17.5	35.5	28.1	20.4	9.6	5.0	7.5	4.6	3.1	5.8	6.9
13	26.0	14.5	30.8	27.6	19.4	9.8	4.9	6.9	4.6	3.1	5.4	5.9
14	29.9	12.5	27.1	25.6	20.4	10.4	5.0	6.4	4.5	3.2	5.2	6.3
15	34.3	11.0	24.9	23.5	20.3	12.2	5.1	6.1	4.4	3.2	5.2	11.4
16	35.5	9.0	22.9	21.4	20.0	15.4	5.6	6.4	4.5	3.0	5.1	17.2
17	35.9	8.7	21.2	20.0	18.5	16.2	5.7	6.2	5.7	2.8	4.5	21.0
18	37.6	10.0	21.2	19.1	17.8	14.5	5.7	5.7	6.1	2.7	4.3	20.5
19	37.9	15.5	22.5	18.3	14.6	12.6	6.0	5.3	5.5	2.5	4.8	18.8
20	35.5	22.9	27.8	17.2	13.5	11.3	7.0	5.0	4.8	2.5	5.3	16.4
21	31.9	28.4	33.0	16.3	17.0	10.8	7.8	4.6	4.1	2.4	5.4	15.3
22	27.3	31.0	34.5	15.4	22.9	10.3	9.1	4.1	3.7	2.3	6.4	16.2
23	23.5	32.6	35.0	14.5	23.1	9.5	10.1	3.8	3.5	2.3	7.5	17.9
24	20.3	33.4	35.2	13.8	20.5	10.4	9.5	3.5	3.8	2.3	7.7	20.3
25	23.5	33.5	33.6	13.0	17.1	10.0	8.5	3.2	4.0	2.3	6.8	20.8
26	27.3	32.6	31.9	12.8	14.5	9.8	7.6	3.0	3.7	2.3	6.7	19.8
27	27.0	33.8	30.1	12.4	12.8	9.5	6.9	2.8	3.3	2.3	6.7	18.0
28	24.8	33.2	30.0	12.0	11.4	10.3	6.3	2.8	3.1	2.3	6.6	16.0
29	23.0	.....	39.5	13.2	10.5	9.5	6.0	2.7	2.9	2.2	7.4	14.5
30	21.3	.....	48.0	14.0	9.6	8.8	5.9	2.6	2.9	2.2	7.6	14.1
31	18.8	.....	49.5	.....	9.2	.....	6.5	2.4	.....	2.2	.....	12.5

140.5 during day.

2 9.2 at 6 p. m.

21.2 at 12 m.

DAILY RIVER STAGES.

Ohio River system—Ohio River, Cincinnati, Ohio.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.8	21.3	12.4	39.6	16.8	9.6	23.3	38.8	9.3	10.5	13.6	27.4
2	24.2	19.8	12.9	44.0	16.2	9.4	22.0	41.8	8.7	11.8	13.0	29.1
3	23.2	18.6	13.0	46.6	15.8	9.0	19.8	41.1	8.1	13.9	12.0	29.2
4	22.3	17.4	13.2	47.7	15.7	8.9	17.0	39.9	7.8	19.5	10.7	27.4
5	20.7	18.7	13.7	46.9	15.9	10.8	14.5	38.2	7.3	24.0	10.2	21.5
6	19.5	22.8	15.0	44.5	16.2	10.4	13.2	35.2	7.0	25.4	11.2	23.1
7	17.9	27.5	16.0	41.0	16.8	10.0	11.5	31.2	6.7	24.1	10.1	21.9
8	16.0	31.5	16.1	36.2	17.5	9.5	10.4	28.8	6.5	21.8	9.7	18.6
9	14.8	33.8	15.7	31.5	17.8	9.4	9.8	25.2	6.2	18.2	13.6	18.0
10	13.2	33.8	14.8	27.4	16.8	10.0	11.8	21.2	6.2	16.2	16.7	18.1
11	12.2	32.8	14.5	24.1	15.4	10.6	13.4	17.8	6.1	14.5	16.8	18.6
12	10.2	31.5	15.0	22.0	13.9	10.5	17.5	17.0	6.0	13.0	17.0	20.6
13	10.2	29.8	15.5	20.4	12.8	10.7	21.3	15.8	6.0	11.0	16.6	23.2
14	9.2	29.8	16.0	19.7	11.7	11.2	20.2	15.2	6.2	10.8	15.8	23.6
15	9.1	27.5	16.7	19.2	10.8	11.6	18.2	15.2	6.1	10.2	14.8	24.1
16	9.2	27.0	17.0	19.3	10.1	11.8	16.2	15.2	5.9	9.8	14.1	26.0
17	8.7	27.3	16.8	20.3	9.5	11.6	14.7	15.2	5.8	9.9	13.7	23.3
18	8.5	27.9	20.0	21.2	9.1	11.6	14.8	15.2	6.0	11.2	13.6	21.0
19	8.2	28.1	27.2	21.2	8.8	11.4	17.4	14.8	6.7	12.3	13.2	20.2
20	7.8	27.2	32.2	20.4	8.8	11.1	20.2	14.2	6.7	12.3	13.0	19.8
21	7.7	24.8	33.6	19.7	8.6	10.8	23.6	12.8	6.6	13.8	12.6	19.1
22	7.5	22.0	35.4	18.7	8.5	10.3	27.2	11.6	6.2	14.2	12.0	18.1
23	7.8	19.0	35.8	17.2	8.3	10.3	25.8	10.8	6.0	13.8	11.8	17.0
24	8.2	16.7	34.8	16.0	8.0	10.2	24.7	10.2	5.8	13.4	11.5	15.1
25	11.8	15.2	33.7	15.5	7.8	10.8	28.4	10.2	5.5	12.8	11.4	15.3
26	11.4	14.2	32.9	16.3	9.3	11.5	32.0	10.8	5.6	12.9	12.0	14.7
27	11.9	13.0	32.0	17.0	10.2	14.5	36.2	12.6	5.9	14.3	12.7	13.8
28	16.6	12.6	30.8	16.9	10.7	20.0	39.5	13.0	6.5	15.4	17.5	12.2
29	20.8	12.3	29.4	16.8	11.8	22.0	40.5	12.1	8.0	15.4	20.2	11.1
30	22.3	-----	30.8	16.6	10.8	22.8	40.2	11.0	8.9	16.2	21.4	10.1
31	22.9	-----	35.0	-----	10.1	-----	39.0	10.0	-----	15.0	-----	10.3

1897.

1	10.0	10.5	55.6	27.0	15.3	11.4	10.3	18.0	7.1	3.2	3.4	12.0
2	10.0	10.1	49.9	24.9	17.5	11.0	9.4	16.5	6.8	3.2	3.8	13.4
3	9.3	10.2	43.2	23.1	20.9	10.6	9.1	15.8	6.7	3.6	3.8	16.2
4	10.0	13.5	37.8	21.3	23.7	10.2	10.2	15.4	6.4	3.7	3.6	17.5
5	11.0	20.0	35.5	21.0	28.0	10.0	15.8	13.9	6.2	3.6	3.4	18.5
6	13.5	24.5	43.1	21.2	29.2	9.7	19.0	12.5	5.9	3.6	3.2	17.5
7	14.6	29.2	39.2	25.5	28.7	9.5	17.0	11.6	5.8	3.8	3.2	15.6
8	15.3	33.9	32.5	25.8	27.7	9.2	14.1	11.0	5.6	3.9	4.5	14.9
9	15.9	40.4	40.0	26.0	26.4	9.0	11.9	10.5	5.5	3.9	7.3	15.4
10	15.9	43.7	47.2	31.2	24.5	9.0	10.7	9.8	5.3	3.8	9.1	15.7
11	15.9	44.4	49.7	32.4	23.3	9.7	10.0	9.1	5.2	3.7	6.8	17.3
12	16.2	42.6	50.1	34.3	23.5	10.5	10.1	9.2	5.1	3.6	6.0	17.5
13	15.7	40.2	48.8	35.2	27.1	11.9	10.1	9.8	5.0	3.5	6.0	16.6
14	15.2	37.7	46.5	35.3	27.2	12.9	9.7	9.7	4.8	3.2	5.8	14.8
15	13.8	36.2	43.8	36.2	28.4	13.0	9.1	9.2	4.8	3.2	6.0	14.0
16	13.3	35.2	41.5	35.0	33.0	12.8	9.9	8.8	4.8	3.2	6.4	13.5
17	12.9	34.0	39.9	34.2	35.0	12.7	10.9	8.4	4.6	3.2	8.5	12.9
18	15.6	32.3	40.0	33.2	34.4	12.7	10.8	8.0	4.4	3.1	8.4	14.2
19	14.7	30.6	39.2	31.9	32.3	12.9	10.1	7.8	4.3	3.5	8.9	15.8
20	14.0	29.1	40.3	30.5	29.2	14.2	9.9	8.1	4.1	4.2	10.0	19.6
21	15.0	29.5	38.2	28.9	25.8	15.0	10.6	8.1	3.9	4.1	11.7	23.5
22	16.1	41.0	37.6	26.7	22.8	16.1	11.8	8.0	3.8	3.8	13.1	25.5
23	17.0	50.4	37.6	24.2	18.5	19.7	12.1	8.1	3.7	3.4	13.6	25.3
24	17.5	56.0	37.7	22.0	17.3	20.7	12.5	8.5	3.6	3.3	13.1	25.0
25	17.8	59.4	36.4	20.0	16.7	19.0	19.0	10.1	3.5	3.1	12.2	24.3
26	17.2	61.1	35.2	18.5	15.4	17.0	21.8	10.5	3.4	3.1	11.5	23.4
27	16.7	60.9	34.1	17.0	14.2	15.1	24.2	9.8	3.3	3.1	12.1	22.4
28	15.2	59.2	33.4	16.4	13.6	13.5	24.8	9.2	3.2	3.4	12.1	20.8
29	14.5	-----	32.4	15.7	13.2	12.3	23.5	8.6	3.2	3.8	10.8	18.0
30	13.7	-----	31.2	15.1	12.7	11.3	22.5	8.0	3.2	3.8	10.5	16.1
31	11.6	-----	30.2	-----	12.0	-----	20.8	7.5	-----	3.6	-----	14.2

DAILY RIVER STAGES.

277

Ohio River system—Ohio River, Cincinnati, Ohio—Continued.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.8	36.9	26.5	56.5	28.5	18.8	9.7	11.2	10.1	7.4	16.5	13.5
2	13.8	31.7	23.9	54.1	27.0	17.0	9.8	12.0	9.8	7.2	15.2	12.5
3	14.2	27.1	21.5	51.2	24.4	15.9	10.0	12.1	9.7	5.5	13.6	11.8
4	15.0	23.1	19.8	47.6	21.5	14.7	9.0	12.3	9.7	4.9	12.7	11.2
5	14.5	20.0	18.2	42.9	19.2	13.5	8.4	12.2	9.6	4.7	12.1	14.2
6	13.8	17.0	17.1	37.6	16.9	12.6	7.8	12.6	9.1	4.5	11.8	15.7
7	16.1	16.0	16.3	32.3	21.6	11.8	8.4	14.3	8.5	4.7	11.6	15.9
8	17.1	14.5	15.9	27.3	23.4	10.9	8.3	17.6	8.0	5.1	11.0	16.8
9	17.7	13.6	15.5	25.6	23.3	10.3	8.7	21.0	8.0	5.2	10.3	17.8
10	32.0	13.3	15.2	23.7	24.3	9.8	8.3	21.8	8.7	5.6	13.9	18.3
11	32.3	13.3	15.0	22.0	25.0	9.4	7.8	25.0	9.3	8.0	16.3	17.6
12	33.5	15.1	15.2	20.5	24.1	9.0	7.4	34.2	9.4	7.0	16.8	16.5
13	37.2	16.7	17.8	19.4	24.0	8.6	6.9	39.2	9.0	7.2	21.9	15.0
14	38.1	19.0	18.3	19.3	22.5	8.4	6.7	39.1	8.3	6.8	24.3	14.0
15	38.2	21.4	17.0	20.0	21.6	8.1	6.4	36.7	7.7	6.5	25.5	12.7
16	41.2	25.9	18.0	20.6	20.9	8.1	6.2	32.6	7.3	6.3	26.1	11.5
17	43.4	29.0	20.0	20.4	20.1	8.4	6.1	28.2	7.0	6.3	26.8	10.9
18	44.6	30.7	23.5	20.3	20.6	9.1	6.7	23.8	6.9	6.9	25.0	10.3
19	43.7	31.4	27.1	21.1	24.5	10.3	7.1	20.7	6.7	7.1	22.9	10.4
20	46.5	30.5	31.8	21.3	27.3	11.7	8.2	18.2	6.3	6.9	20.1	15.0
21	47.4	30.9	38.5	20.9	28.0	12.5	8.4	15.6	6.0	6.9	19.2	16.9
22	43.4	30.6	41.9	20.8	28.0	13.4	9.2	14.8	6.0	7.8	17.0	19.0
23	48.3	31.0	44.1	20.1	27.0	13.3	9.5	15.5	5.8	10.5	19.4	22.8
24	50.3	32.6	49.2	19.9	25.0	13.3	9.4	19.1	5.4	12.4	19.7	24.9
25	50.7	33.5	51.8	18.8	23.5	13.9	9.0	21.8	5.4	16.1	18.8	28.1
26	52.2	33.0	54.6	17.0	24.5	13.2	9.3	21.0	5.1	23.1	17.9	31.0
27	51.8	31.6	57.9	16.5	25.8	12.1	11.0	19.2	5.0	24.8	17.0	31.9
28	50.4	29.4	59.8	20.8	25.3	10.9	10.3	16.2	6.9	24.8	16.3	31.7
29	48.2	-----	61.4	26.3	23.8	10.6	10.8	14.0	8.7	23.2	15.4	29.7
30	45.2	-----	60.2	28.5	22.0	10.1	10.4	11.7	8.5	20.8	14.4	27.7
31	41.2	-----	58.6	-----	20.3	-----	10.8	11.5	-----	18.0	-----	25.6

1899.

1	22.7	22.3	37.2	51.6	15.4	11.3	11.0	7.5	4.0	4.2	3.5	8.5
2	20.3	20.0	38.9	51.1	15.6	11.5	10.0	8.1	3.8	4.2	3.4	8.5
3	19.3	16.5	39.3	47.9	15.2	13.1	9.3	9.4	3.7	4.0	3.6	8.1
4	19.0	17.1	38.4	44.0	14.5	16.5	9.0	9.5	3.7	3.9	3.6	7.8
5	20.5	21.5	44.0	39.4	13.8	18.7	8.7	9.8	3.9	4.0	3.5	7.4
6	23.2	27.3	50.3	34.5	13.2	18.5	9.4	12.4	4.3	4.1	3.6	7.1
7	24.4	34.5	55.1	29.7	12.9	17.5	9.3	12.2	4.3	4.0	4.0	6.7
8	33.6	37.7	57.2	26.9	12.7	16.0	9.0	10.3	4.1	3.9	4.7	6.5
9	40.0	38.7	56.9	26.5	13.0	14.6	8.9	9.8	4.4	3.9	7.5	6.3
10	41.4	37.7	54.9	27.9	13.9	13.5	8.0	11.0	4.8	4.0	9.3	6.3
11	40.2	31.4	51.4	29.3	16.1	12.2	7.7	13.5	5.2	4.2	9.1	6.7
12	37.5	26.2	46.6	30.3	20.9	11.5	7.0	12.3	5.4	4.3	8.3	7.9
13	35.0	22.5	41.0	30.6	23.5	11.0	6.8	10.0	5.5	4.3	7.6	8.8
14	38.0	15.0	35.6	29.8	22.8	11.2	6.5	9.0	5.8	4.3	7.0	8.4
15	41.8	13.3	33.2	28.3	22.9	11.6	6.5	8.3	5.8	4.3	6.7	8.6
16	41.8	13.9	28.4	26.4	22.7	12.4	6.6	7.7	5.7	4.3	6.5	10.4
17	41.0	12.3	25.9	24.2	22.0	15.6	7.0	7.6	5.7	4.4	6.4	16.0
18	40.3	11.5	24.2	22.8	20.9	17.5	7.1	7.6	5.7	4.3	6.4	20.7
19	40.3	12.6	24.8	21.5	19.3	17.2	7.1	7.5	6.6	4.2	6.0	21.7
20	39.7	14.9	29.0	20.7	17.3	15.4	7.2	7.2	7.0	4.0	5.8	21.2
21	38.2	25.8	32.3	19.7	15.8	13.9	7.4	6.8	6.8	3.8	5.8	19.5
22	35.4	32.1	36.1	18.5	16.6	12.7	8.0	6.5	6.3	3.7	6.3	17.5
23	30.6	34.6	40.0	17.3	22.4	12.0	9.1	6.1	5.6	3.6	6.9	17.5
24	26.9	35.6	40.5	15.8	24.0	11.3	10.5	5.6	5.0	3.6	7.7	19.8
25	25.9	35.9	39.5	15.0	22.7	12.0	10.8	5.3	4.9	3.5	8.7	21.9
26	27.4	36.2	37.8	14.9	20.1	12.5	10.6	5.0	4.9	3.5	9.3	23.0
27	30.6	39.0	35.6	14.6	17.0	11.8	9.9	4.7	5.2	3.5	8.1	21.6
28	29.6	38.6	35.2	14.5	15.5	11.0	9.0	4.4	5.0	3.5	8.0	20.4
29	28.5	-----	39.0	14.4	13.7	11.1	8.4	4.1	4.8	3.5	7.7	18.6
30	26.4	-----	45.2	14.2	12.6	11.4	7.8	4.0	4.5	3.5	8.0	16.3
31	24.4	-----	50.0	-----	11.7	-----	7.5	4.0	-----	3.6	-----	14.9

157.4 at 2 p. m.

139.4 at 6 p. m.

DAILY RIVER STAGES.

*Ohio River system—Ohio River, Madison, Ind.***1899.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1												7.2
2												7.6
3												7.6
4												7.5
5												7.2
6												7.1
7												7.1
8												6.8
9												6.6
10												6.1
11												6.0
12												7.4
13												7.3
14												8.3
15												8.5
16												8.1
17												10.2
18												14.2
19												17.5
20												18.5
21												17.7
22												16.4
23												15.3
24												15.6
25												18.7
26												19.9
27												20.0
28												18.2
29												17.0
30												15.4
31												14.7

DAILY RIVER STAGES.

279

*Ohio River system—Ohio River, Louisville, Ky.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.4	9.3	6.5	13.4	7.5	5.9	9.2	13.7	5.7	6.4	7.4	9.4
2	9.8	9.1	6.5	16.3	7.6	5.6	9.3	14.0	5.3	7.0	7.2	10.9
3	9.9	8.9	6.4	19.5	7.5	5.5	9.0	15.1	5.0	7.2	7.0	11.3
4	9.7	9.0	6.5	21.6	7.4	5.3	8.6	15.0	4.7	7.6	6.9	11.0
5	9.2	9.1	6.6	22.6	7.2	5.2	8.3	14.5	4.5	8.8	6.7	10.5
6	8.9	9.3	6.7	22.4	7.3	5.7	8.0	13.5	4.3	9.7	6.5	10.0
7	8.5	9.9	7.0	20.4	7.4	5.8	7.6	12.1	4.1	10.0	6.5	9.3
8	8.0	11.0	7.3	17.0	7.4	5.6	7.1	11.1	4.0	9.6	6.2	8.8
9	7.6	11.8	7.5	13.3	7.6	5.6	6.8	11.2	3.9	9.1	6.0	8.5
10	7.2	12.4	7.5	11.4	7.7	5.5	6.4	10.0	3.8	8.5	6.4	8.5
11	6.8	12.4	7.4	10.5	7.5	5.6	6.5	9.1	3.7	8.0	7.5	8.5
12	6.4	12.1	7.3	9.6	7.2	5.7	7.5	8.5	3.6	7.4	7.8	8.5
13	6.0	11.8	7.3	9.0	6.9	5.8	8.4	8.0	3.6	7.0	7.9	8.9
14	5.9	11.7	7.4	8.6	6.5	5.9	9.3	7.5	3.5	6.6	7.7	9.5
15	5.6	11.6	7.5	8.3	6.3	6.0	9.1	7.2	4.0	6.4	7.5	9.7
16	5.4	11.2	7.8	8.1	6.0	6.0	8.8	7.0	4.1	6.2	7.2	10.0
17	5.2	11.0	7.9	8.1	5.6	6.1	8.2	7.1	4.0	6.0	7.0	9.8
18	5.1	11.0	8.1	8.4	5.4	6.1	8.0	7.1	4.3	5.9	7.0	9.4
19	5.0	10.9	9.4	8.6	5.2	6.0	8.0	7.0	4.4	6.1	7.0	8.9
20	5.0	10.8	11.8	8.6	5.1	6.0	8.3	7.0	4.5	6.5	6.9	8.5
21	4.8	10.5	12.9	8.5	5.0	5.9	9.2	7.0	4.7	6.7	6.7	8.4
22	4.7	9.9	13.6	8.2	4.9	5.8	11.0	6.4	4.9	6.9	6.6	8.2
23	4.6	9.1	14.1	8.0	4.8	5.8	10.9	6.2	4.9	7.0	6.5	8.1
24	4.7	8.5	13.8	7.7	4.7	6.5	10.6	5.9	4.8	7.1	6.4	7.8
25	5.5	8.0	13.1	7.5	4.5	6.2	10.5	5.9	4.6	7.0	6.3	7.5
26	6.7	7.5	12.6	7.3	4.4	6.0	11.1	5.8	4.5	7.0	6.0	7.1
27	6.8	7.1	12.2	7.4	5.4	6.1	11.7	5.9	4.4	6.9	6.0	7.0
28	6.7	6.8	11.8	7.5	6.0	6.8	12.5	6.3	4.3	7.0	8.1	6.6
29	7.8	6.6	11.5	7.5	6.0	8.2	13.3	6.6	4.7	7.4	9.0	6.4
30	8.8	-----	11.5	7.5	6.2	9.0	13.9	6.4	5.4	7.5	9.0	6.2
31	9.3	-----	12.3	-----	6.0	-----	14.1	6.0	-----	7.5	-----	6.0

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.9	Frozen.	34.6	10.4	6.9	6.0	5.9	8.5	4.3	3.2	4.3	6.0
2	5.7	-----	32.1	9.9	7.6	5.8	5.6	8.0	4.2	3.5	4.3	6.3
3	5.5	5.8	28.6	9.4	8.4	5.7	5.3	7.4	4.0	3.7	4.3	6.5
4	5.4	6.0	24.4	9.0	9.1	5.6	4.9	7.1	3.8	3.8	4.3	7.4
5	5.6	6.8	18.7	8.8	9.8	5.4	5.1	6.8	3.7	3.9	4.3	8.0
6	6.1	9.1	22.8	9.1	10.7	5.3	6.5	6.5	3.6	4.0	4.3	8.1
7	6.4	10.8	22.6	9.4	10.8	5.3	7.7	6.3	3.5	4.1	4.3	7.9
8	6.8	12.4	18.5	10.3	10.6	5.1	7.5	5.9	3.3	4.1	4.3	7.5
9	7.0	15.5	16.6	10.9	10.3	4.9	6.8	5.7	3.3	4.2	5.2	7.2
10	7.2	16.7	20.5	11.9	9.8	4.8	6.2	5.5	3.2	4.3	6.3	7.3
11	7.2	18.3	24.7	12.7	9.4	4.8	5.8	5.3	3.1	4.3	6.3	7.4
12	7.2	18.3	26.8	12.4	9.4	4.8	5.5	5.0	2.9	4.3	5.7	7.8
13	7.2	17.0	27.4	12.5	9.9	5.2	5.3	4.9	2.8	4.3	4.8	8.0
14	7.1	15.4	26.6	12.7	10.3	5.6	5.3	4.9	2.8	4.3	4.2	7.7
15	7.0	13.8	24.9	13.3	10.3	5.9	5.2	5.0	2.7	4.2	4.0	7.3
16	6.7	12.9	22.5	13.5	10.8	6.1	5.1	4.9	2.7	4.1	3.9	7.1
17	6.5	12.4	19.9	12.8	11.8	6.0	5.2	4.8	2.7	4.1	4.5	6.9
18	7.6	11.8	18.5	12.2	12.2	6.4	5.5	4.6	2.7	4.0	5.6	6.8
19	7.8	11.3	18.5	11.7	11.8	6.2	5.7	4.3	2.6	3.9	5.6	7.4
20	7.4	10.9	19.0	11.2	11.1	6.1	5.4	4.1	2.5	3.9	5.5	7.8
21	7.2	10.7	18.1	10.8	10.3	6.5	5.4	4.2	2.5	3.9	5.7	8.8
22	7.7	13.9	15.9	10.3	10.0	6.8	5.5	4.3	2.4	4.1	6.2	9.8
23	7.8	22.0	15.0	9.8	8.9	7.1	6.0	4.3	2.4	4.3	6.6	10.1
24	8.0	27.5	15.4	9.3	8.2	8.0	6.3	4.3	2.4	4.3	6.7	10.0
25	8.1	31.1	14.9	8.8	7.8	8.3	6.6	4.4	2.4	4.3	6.6	9.9
26	7.9	33.5	13.1	8.3	7.6	8.0	7.8	4.9	2.5	4.1	6.4	9.8
27	7.6	35.0	12.3	8.0	7.1	7.5	8.8	5.4	2.6	4.0	6.6	9.4
28	Frozen.	35.4	11.8	7.7	6.7	7.1	9.3	5.4	2.6	3.9	6.9	9.1
29	-----	-----	11.5	7.3	6.3	6.5	9.3	5.2	2.5	3.8	6.8	8.8
30	-----	-----	11.2	7.0	6.2	6.2	9.2	4.9	2.7	3.8	6.4	8.2
31	-----	-----	10.8	-----	6.2	-----	8.9	4.6	-----	4.0	-----	7.7

DAILY RIVER STAGES.

Ohio River system—Ohio River, Louisville, Ky.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.3	17.1	10.8	35.0	10.5	8.6	5.8	6.0	5.8	5.2	7.5	7.3
2	7.0	13.1	10.2	33.3	10.5	8.2	5.6	6.1	5.7	4.9	7.8	7.0
3	6.8	11.3	9.5	31.4	10.1	7.8	5.5	6.3	5.5	4.6	7.4	6.8
4	7.0	10.3	9.0	28.8	9.6	7.5	5.5	6.4	5.4	4.0	7.0	6.4
5	7.2	9.3	8.5	25.5	8.9	7.1	5.3	6.4	5.7	3.6	6.7	6.4
6	7.2	8.7	8.2	21.2	8.6	6.8	5.1	6.4	5.5	3.6	6.5	7.3
7	7.0	8.0	7.9	16.4	9.2	6.5	4.9	6.4	5.3	3.6	6.7	7.8
8	7.8	7.6	7.7	12.3	10.0	6.3	4.9	6.8	5.0	3.5	6.6	7.9
9	8.0	7.2	7.5	10.7	10.0	6.0	4.9	8.2	4.8	4.1	6.4	7.9
10	11.2	7.0	7.4	9.9	9.8	6.0	4.9	9.0	5.7	4.6	6.6	8.2
11	12.5	6.7	7.3	9.6	10.0	5.8	4.8	9.3	4.8	4.7	7.8	8.3
12	12.1	6.8	7.3	9.3	10.0	5.4	4.7	10.5	5.1	5.2	8.3	8.2
13	12.8	7.5	8.0	9.0	9.9	5.3	4.3	12.5	5.3	5.6	8.8	7.9
14	13.8	8.0	9.0	8.8	9.8	5.0	4.2	13.9	5.3	5.3	9.7	7.5
15	14.6	8.3	8.8	8.8	9.4	4.9	4.0	14.2	5.0	5.2	10.1	7.0
16	16.9	9.0	8.8	8.9	9.0	4.7	3.9	12.9	4.9	5.1	10.3	6.8
17	19.1	10.0	9.1	9.0	8.8	4.6	3.8	11.5	4.6	4.7	10.5	6.6
18	20.1	10.8	10.0	8.9	8.8	4.8	3.8	10.5	4.3	4.4	10.5	6.4
19	20.0	11.3	10.5	8.8	8.8	5.1	4.0	9.7	4.1	4.8	10.0	6.3
20	22.5	11.3	11.4	8.8	9.8	5.5	4.2	8.8	4.0	5.3	9.5	7.0
21	25.8	11.3	14.5	8.8	10.4	5.9	4.5	8.0	3.9	5.4	9.1	8.1
22	24.9	11.4	18.8	8.8	10.6	6.3	4.9	7.3	3.9	5.4	8.5	8.8
23	26.5	11.3	20.0	8.8	10.5	6.6	5.2	7.1	3.9	5.8	8.3	9.5
24	28.9	11.3	21.8	8.6	10.3	6.7	5.3	7.1	3.9	6.3	8.4	10.1
25	29.6	11.7	26.8	8.4	9.8	6.6	5.3	7.9	3.9	6.7	8.5	10.5
26	29.8	11.8	28.7	8.2	9.5	6.8	5.3	8.7	3.6	7.8	8.3	11.1
27	29.8	11.7	30.8	8.0	9.7	7.2	5.3	8.7	3.7	9.2	8.1	11.6
28	28.8	11.3	33.1	7.8	9.9	7.1	5.8	8.2	3.7	9.8	7.9	11.8
29	27.1	-----	35.5	8.6	9.8	6.6	6.0	7.6	3.9	9.7	7.8	11.5
30	24.5	-----	36.3	9.9	9.4	6.2	6.0	7.0	4.8	9.3	7.5	11.0
31	21.5	-----	36.0	-----	9.0	-----	6.0	6.4	-----	9.0	-----	10.4

1899.

1	10.0	9.8	15.7	25.0	7.2	6.3	5.8	4.6	2.8	5.0	4.3	4.6
2	9.5	9.2	15.3	26.8	7.3	6.2	5.7	4.4	2.6	4.9	4.3	4.5
3	8.9	8.7	16.0	26.9	7.3	6.0	5.5	4.3	2.5	4.8	4.3	4.7
4	8.7	8.3	16.2	25.3	7.3	6.3	5.3	4.8	2.4	4.7	4.3	4.6
5	9.0	8.8	19.0	21.5	7.2	7.1	5.0	5.2	2.3	4.6	4.4	4.5
6	10.0	9.6	23.5	16.8	7.0	7.8	4.8	5.5	2.3	4.5	4.4	4.4
7	10.3	11.5	27.4	12.7	6.8	7.9	4.8	6.2	2.5	4.5	4.4	4.3
8	11.1	13.1	30.2	10.9	6.7	7.7	5.0	6.4	2.7	4.5	4.4	3.9
9	13.3	14.5	32.1	10.7	6.9	7.3	5.0	5.9	2.8	4.5	4.3	3.9
10	15.8	15.0	32.8	10.9	7.3	7.0	4.8	5.6	2.8	4.5	4.3	3.6
11	17.3	14.0	32.3	11.2	7.8	6.7	4.7	5.8	2.8	4.5	5.3	3.6
12	17.1	12.0	30.1	11.4	8.3	6.3	4.4	7.0	2.9	4.5	5.8	4.1
13	15.5	10.3	25.7	11.3	9.3	6.0	4.3	6.9	3.2	4.6	5.6	5.0
14	17.1	8.8	19.6	11.2	9.6	5.8	4.1	6.1	3.4	4.7	5.3	5.3
15	21.3	8.2	14.2	11.0	9.4	5.8	3.9	5.6	3.5	4.7	4.8	5.4
16	22.4	7.7	11.3	10.6	9.3	6.0	3.8	5.5	3.5	4.8	4.3	5.2
17	21.5	7.3	10.4	10.1	9.2	6.3	3.8	5.1	3.6	4.8	3.8	5.3
18	19.3	6.8	9.9	9.6	9.0	7.0	3.8	4.7	3.6	4.8	3.7	7.3
19	17.4	7.0	10.0	9.2	8.8	7.5	3.9	4.5	3.6	4.8	3.7	8.8
20	16.1	7.5	10.9	8.9	8.3	7.5	4.0	4.5	3.8	4.8	3.7	9.3
21	15.3	8.8	11.7	8.7	7.8	7.1	4.2	4.3	4.2	4.8	3.5	8.8
22	13.7	10.7	12.6	8.3	7.4	6.8	4.2	4.3	4.5	4.7	3.5	8.7
23	12.2	12.1	15.0	8.0	7.4	6.4	4.3	4.2	5.1	4.5	3.6	8.3
24	11.2	12.7	17.2	7.7	8.7	6.2	4.8	4.0	5.3	4.5	4.1	8.2
25	10.6	12.8	17.3	7.8	9.2	6.2	5.3	3.9	5.3	4.3	4.3	8.7
26	10.7	13.0	16.1	7.6	8.9	6.2	5.7	3.8	5.1	4.4	4.5	9.3
27	11.2	14.8	14.5	7.4	8.4	6.2	5.7	3.5	5.0	4.3	4.1	9.4
28	11.7	15.9	13.5	7.3	7.8	6.1	5.6	3.3	5.0	4.2	4.8	9.2
29	11.6	-----	15.3	7.6	7.3	5.9	5.3	3.2	5.2	4.3	4.8	8.7
30	10.9	-----	18.0	7.4	6.9	5.8	5.2	3.0	5.2	4.3	4.7	8.3
31	10.4	-----	21.8	-----	6.4	-----	4.8	2.8	-----	4.3	-----	7.7

DAILY RIVER STAGES.

281

Ohio River system—Ohio River, Evansville, Ind.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.4	12.4	10.5	28.9	11.8	10.2	13.0	29.1	8.5	3.2	9.4	18.1
2	18.4	14.5	9.8	30.4	12.1	10.2	15.0	29.2	8.1	3.6	9.7	18.8
3	19.0	16.1	9.4	32.3	12.2	10.0	15.9	29.2	7.5	5.5	9.6	20.5
4	19.4	16.8	9.1	34.5	12.2	10.4	16.3	29.8	6.8	7.5	9.3	23.0
5	19.4	17.8	9.0	36.3	12.0	10.6	16.4	30.4	6.2	8.8	8.7	23.5
6	18.3	18.7	9.1	37.4	11.7	10.3	16.1	30.5	5.7	9.9	8.1	22.8
7	17.1	18.9	9.7	38.0	11.3	9.3	16.6	30.1	5.3	12.5	7.5	21.1
8	15.9	19.3	11.0	38.0	11.1	8.3	16.0	29.0	4.9	15.1	7.4	19.5
9	15.0	21.8	12.2	37.2	11.0	8.2	14.5	27.5	4.6	16.4	7.3	18.3
10	14.0	23.2	13.1	35.8	11.2	8.0	12.9	25.7	4.3	16.3	7.0	17.6
11	12.8	25.1	13.5	33.5	11.6	7.7	11.1	24.0	4.1	15.3	6.7	17.2
12	12.8	26.4	13.4	28.5	11.8	7.3	9.6	21.8	3.9	14.1	7.0	16.7
13	11.7	27.0	12.9	27.0	11.7	7.0	9.4	18.5	3.7	12.6	8.7	17.6
14	9.7	27.6	12.3	23.2	11.2	7.1	11.3	15.7	3.5	11.2	10.5	16.9
15	8.8	28.0	11.9	19.5	10.3	7.2	13.8	14.0	3.4	9.8	11.0	16.5
16	8.0	27.8	11.8	16.8	9.4	7.3	15.9	12.6	3.2	8.6	11.2	17.8
17	7.4	27.2	12.1	15.2	9.0	7.4	16.6	11.6	3.2	7.8	10.8	19.6
18	6.9	25.0	12.9	14.3	8.3	7.8	16.9	11.1	3.0	7.3	10.3	20.2
19	6.9	24.9	14.0	14.0	7.7	8.2	16.5	10.7	3.0	6.7	9.7	19.7
20	6.2	24.0	16.2	14.2	7.0	8.0	16.2	10.5	3.0	6.3	9.3	18.6
21	6.0	23.0	21.8	14.5	6.5	8.0	16.6	10.5	3.0	6.0	9.0	16.8
22	5.8	22.0	26.4	14.7	6.2	7.8	19.3	10.3	2.9	6.7	8.8	15.7
23	5.7	21.0	29.8	14.5	6.2	7.8	22.8	10.0	3.0	7.4	8.6	14.9
24	5.3	20.1	31.3	14.1	7.5	7.7	25.6	9.4	3.1	8.0	8.5	14.4
25	5.5	17.0	32.1	13.5	7.6	8.7	25.7	8.7	3.0	8.5	8.2	13.7
26	5.7	15.3	31.9	13.0	7.5	9.5	24.3	8.1	3.3	8.8	8.2	13.2
27	5.9	13.8	31.2	12.4	6.9	10.0	23.2	7.7	3.5	8.7	8.2	12.6
28	7.6	12.4	30.1	11.9	6.8	9.6	23.5	7.4	3.6	8.5	9.5	11.4
29	8.9	11.3	28.6	12.0	8.2	9.1	25.4	7.3	3.5	8.4	10.8	10.7
30	9.5	-----	28.0	11.8	10.3	10.3	27.4	7.8	3.3	8.5	15.9	10.0
31	11.2	-----	27.9	-----	11.2	-----	28.6	8.4	-----	9.0	-----	9.3

1897.

1	8.6	9.5	43.3	31.6	13.5	10.0	10.9	17.0	6.1	1.0	0.7	9.2
2	8.2	9.0	43.6	31.2	13.7	9.6	10.5	16.6	5.7	0.9	0.7	8.6
3	7.9	9.7	43.6	30.0	15.1	9.2	9.4	15.7	5.3	0.7	0.7	8.0
4	7.3	10.1	43.4	28.5	16.6	8.6	8.3	14.4	4.9	0.5	0.7	7.8
5	6.8	10.5	42.8	27.0	18.3	8.3	7.6	13.0	4.6	0.5	0.9	8.4
6	7.0	11.3	41.8	25.8	20.0	8.0	7.0	12.0	4.3	0.4	0.9	9.9
7	7.4	13.2	41.4	24.8	21.8	7.8	6.5	11.2	4.1	0.5	1.0	11.6
8	7.8	17.8	41.1	24.5	23.1	7.4	8.0	10.9	3.8	0.6	1.0	12.4
9	8.8	22.8	40.6	26.2	23.5	7.1	11.2	10.1	3.6	0.6	1.1	12.3
10	9.3	32.3	40.2	28.9	23.1	6.9	12.1	9.4	3.5	0.7	1.3	11.7
11	10.3	34.6	40.2	30.8	22.4	6.6	12.5	8.5	3.3	0.8	2.3	10.9
12	10.8	35.5	40.7	32.1	21.7	6.4	10.3	7.8	3.1	0.9	3.5	10.6
13	11.0	35.5	41.3	32.5	21.3	6.1	9.1	7.3	3.0	0.9	5.0	10.8
14	11.3	35.2	41.7	32.4	21.6	6.1	8.1	6.9	2.9	0.9	5.6	11.6
15	11.5	34.4	41.9	32.6	22.2	6.3	7.5	6.5	2.8	0.9	5.4	12.0
16	11.7	33.2	41.8	33.1	22.4	6.9	7.1	6.3	2.7	1.0	4.8	11.8
17	11.5	31.8	41.4	33.5	22.8	7.6	6.8	6.3	2.5	0.9	4.3	11.2
18	13.5	30.4	41.0	33.5	24.0	8.2	6.6	6.3	2.4	0.9	4.0	10.6
19	14.6	29.0	40.7	33.0	25.6	8.5	6.6	6.1	2.2	0.8	4.1	10.0
20	15.3	27.6	40.5	32.2	26.4	8.8	6.9	5.8	2.0	0.9	4.9	9.9
21	15.5	26.5	40.2	31.1	26.0	9.0	7.3	5.6	2.0	0.9	5.8	10.6
22	15.5	27.3	39.9	29.8	24.8	9.3	7.4	5.3	1.8	1.0	6.2	12.2
23	15.9	31.2	39.3	28.0	22.8	10.0	7.2	5.1	1.8	0.9	6.3	14.8
24	15.6	36.0	38.5	25.8	20.8	10.7	7.2	5.0	1.6	0.9	6.8	17.3
25	15.4	38.6	37.9	23.0	18.5	11.4	7.9	5.0	1.6	0.8	7.8	18.7
26	14.9	40.5	37.4	20.0	16.2	13.4	8.6	5.1	1.4	0.8	8.4	18.9
27	14.4	41.8	36.7	18.2	14.6	13.9	10.2	5.1	1.3	0.8	8.7	18.6
28	13.8	42.6	35.7	17.5	13.0	14.1	12.8	5.3	1.2	9.8	8.8	17.9
29	13.0	-----	34.5	16.4	12.5	13.3	15.2	5.8	1.1	0.8	9.0	17.1
30	11.5	-----	33.4	15.3	11.8	12.1	17.0	6.3	1.0	0.8	9.3	16.2
31	10.6	-----	32.3	-----	10.6	-----	17.4	6.3	-----	0.7	-----	15.1

Ohio River system—Ohio River, Evansville, Ind.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.0	41.4	25.0	44.7	17.1	18.6	11.2	8.0	11.2	4.3	16.6	12.1
2	13.0	40.5	24.1	44.8	19.3	17.6	9.7	8.1	9.9	4.6	15.4	11.5
3	11.9	39.1	22.7	44.8	20.8	16.2	8.6	8.1	8.8	5.1	14.2	10.8
4	11.0	37.1	20.9	44.5	21.1	14.9	7.9	8.2	7.9	5.5	12.9	9.9
5	10.0	34.4	19.0	43.9	20.5	13.7	7.3	8.4	7.3	5.4	11.9	9.8
6	10.2	31.2	17.0	43.3	19.2	12.6	7.2	8.7	6.9	5.0	10.6	10.1
7	10.5	27.9	15.5	42.3	19.5	11.6	7.3	8.9	6.9	4.6	9.8	10.6
8	11.0	24.3	14.4	41.1	20.2	10.7	7.3	9.2	7.0	4.1	9.2	11.8
9	11.9	20.7	13.5	39.3	21.9	9.9	6.9	9.1	6.9	4.4	9.0	12.9
10	12.8	17.4	12.8	37.1	22.7	9.1	6.3	10.1	6.5	5.3	9.2	13.2
11	15.9	14.7	12.3	34.5	22.5	8.7	6.0	13.1	6.2	6.3	9.6	13.4
12	22.5	12.9	12.0	31.9	21.8	8.2	6.0	15.1	5.9	7.2	10.6	13.6
13	25.7	11.9	12.4	29.0	21.1	7.9	5.9	16.9	5.4	7.2	12.8	13.4
14	27.3	11.7	13.8	26.3	20.7	7.4	5.7	21.3	5.7	6.6	14.4	13.2
15	29.1	12.2	15.7	23.7	20.2	7.0	5.5	26.0	6.0	6.2	15.7	12.8
16	31.4	13.3	19.4	21.7	19.5	6.7	5.3	28.1	6.2	6.0	17.3	11.4
17	33.4	14.5	22.4	20.4	18.4	6.5	5.0	28.3	6.2	5.8	18.6	10.8
18	35.0	16.3	24.4	19.6	17.4	6.4	4.8	27.2	6.0	5.5	19.5	9.9
19	36.1	19.1	26.3	19.2	16.7	6.5	4.5	25.2	5.8	5.2	19.9	9.3
20	37.4	21.5	27.4	18.5	16.3	6.7	4.4	22.8	5.4	5.0	19.7	9.3
21	38.8	23.0	30.1	17.9	17.1	6.9	4.4	20.0	5.1	5.0	18.9	10.5
22	40.0	24.0	33.5	17.4	19.5	7.1	4.6	17.0	4.8	5.1	18.5	12.2
23	41.1	24.5	35.9	17.1	21.8	7.6	4.8	14.5	4.5	5.6	15.8	14.3
24	41.7	24.6	37.4	16.7	23.0	8.3	5.1	12.7	4.5	6.0	14.5	15.9
25	42.3	24.5	38.4	16.4	23.1	8.9	5.6	11.5	4.7	6.5	13.8	17.6
26	42.7	24.7	39.6	16.4	22.4	9.5	6.0	11.0	4.7	7.3	13.7	19.1
27	43.0	25.0	40.7	17.2	21.0	10.7	6.2	12.1	4.6	8.7	13.8	20.5
28	43.1	25.3	41.9	17.2	19.7	12.4	6.5	13.7	4.4	11.4	13.6	21.9
29	43.0	-----	42.9	16.5	19.2	12.9	6.7	14.3	4.2	14.5	13.1	23.3
30	42.7	-----	43.7	16.1	19.3	12.3	7.1	13.8	4.1	16.5	12.6	23.9
31	42.1	-----	44.3	-----	19.2	-----	7.6	12.6	-----	17.1	-----	23.8

1899.

1	23.5	25.5	34.0	37.5	14.0	12.0	8.3	7.2	3.4	2.6	1.6	5.2
2	21.4	23.5	34.5	38.4	13.0	10.8	8.0	7.0	3.2	2.6	1.7	5.1
3	19.9	20.9	34.6	39.5	12.0	10.3	7.8	6.5	2.9	2.6	1.8	4.9
4	18.6	18.5	35.1	40.2	11.8	9.9	7.6	6.0	2.6	2.5	1.8	4.9
5	17.4	17.8	36.2	40.4	12.4	9.0	7.4	5.7	2.6	2.4	1.8	4.9
6	17.5	17.6	37.3	40.0	12.1	9.4	7.1	5.4	2.5	2.3	1.8	5.1
7	19.2	19.0	38.4	39.0	12.0	10.8	6.7	6.0	2.3	2.2	1.8	5.1
8	21.3	20.0	39.8	37.5	12.3	12.4	6.4	6.8	2.2	2.2	1.8	4.9
9	23.1	26.6	41.0	35.5	13.1	13.3	6.3	8.2	2.0	2.1	1.8	4.8
10	26.5	29.3	41.8	33.3	13.6	13.3	6.2	9.8	1.9	1.9	1.8	4.7
11	30.3	31.6	42.4	31.2	14.3	13.1	6.2	9.9	2.1	1.8	1.8	4.6
12	32.8	32.2	42.7	29.8	15.5	12.4	6.2	9.4	2.2	1.8	1.8	5.1
13	34.2	31.2	42.6	29.3	17.5	11.4	6.0	9.0	2.2	1.7	2.5	6.0
14	35.4	28.0	42.2	28.9	20.0	10.6	5.7	10.3	2.2	1.8	4.0	6.7
15	36.6	¹ 26.0	41.0	28.4	22.1	9.7	5.4	10.9	2.3	1.8	5.0	7.5
16	37.9	¹ 24.0	39.6	27.7	22.7	9.4	5.1	10.0	2.4	1.8	5.3	8.0
17	38.8	18.0	37.2	26.3	22.2	9.6	4.9	8.7	2.7	1.9	5.2	7.9
18	39.1	14.5	34.8	24.2	21.3	9.4	4.6	7.9	2.9	2.0	4.9	7.7
19	38.9	13.8	33.2	22.6	19.9	9.4	4.5	7.1	3.0	2.1	4.7	7.4
20	38.2	14.0	32.3	20.8	18.7	10.3	4.3	6.5	3.1	2.1	4.5	10.6
21	37.5	15.0	31.7	19.3	17.5	11.5	4.4	5.9	3.2	2.1	4.1	14.6
22	36.8	17.0	31.8	17.8	16.0	12.0	4.5	5.5	3.2	2.1	4.1	16.4
23	36.0	20.7	32.4	16.7	14.8	11.7	4.7	5.3	3.3	2.1	4.4	16.5
24	34.8	25.0	33.6	15.8	13.7	11.0	5.2	5.1	3.5	2.1	4.8	15.8
25	33.3	27.9	34.9	15.0	13.5	10.5	5.7	4.9	3.6	2.0	4.8	15.1
26	31.0	29.7	35.6	15.8	15.1	10.4	6.1	4.7	3.5	1.8	4.7	15.2
27	30.0	31.3	35.9	16.0	16.6	9.7	6.7	4.3	3.3	1.7	4.5	15.9
28	29.0	33.0	35.8	15.8	16.4	9.2	7.4	4.0	3.2	1.7	4.6	16.8
29	28.7	-----	35.8	14.8	15.5	8.8	7.9	4.0	3.0	1.7	4.9	17.0
30	28.6	-----	36.0	14.0	14.3	8.6	7.5	3.9	2.7	1.7	5.2	16.4
31	27.6	-----	36.5	-----	13.2	-----	7.5	3.8	-----	1.6	-----	15.1

¹ Estimated.

DAILY RIVER STAGES.

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*Ohio River system—Ohio River, Mount Vernon, Ind.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.7	12.5	10.5	27.9	11.4	10.9	11.2	28.9			8.9	17.0
2	17.3	14.4	9.8	29.2	11.6	10.8	13.6	29.3			9.0	18.2
3	18.1	15.5	9.2	30.7	11.9	10.6	15.1	29.2			9.0	19.2
4	18.6	16.6	8.9	32.6	11.9	10.5	15.7	29.5			8.8	21.7
5	18.5	17.0	8.7	34.3	11.9	10.3	15.8	30.0		7.7	8.6	21.8
6	18.0	17.9	8.8	35.5	11.4	10.2	15.9	30.2		9.0	8.0	22.5
7	17.0	18.5	8.9	36.5	11.0	9.5	15.9	30.0		10.8	7.3	19.9
8	15.7	18.9	8.8	37.0	10.8	8.5	15.7	29.5		13.5	7.1	18.1
9	14.6	19.1	11.0	36.7	10.5	8.0	14.8	28.0		15.5	6.9	17.3
10	13.5	21.8	12.1	35.7	10.6	7.7	13.2	26.3		16.1	6.7	16.8
11	12.6	23.7	12.7	34.2	10.9	7.5	10.5	24.6		15.5	6.4	16.4
12	11.6	25.1	12.9	31.7	11.1	7.1	10.0	22.6		14.3	6.1	16.1
13	10.6	25.8	12.8	28.6	11.2	6.8	9.0	20.0		12.9	7.3	15.9
14	9.7	26.4	12.3	24.7	11.0	6.4	9.5	17.0		11.5	9.2	15.5
15	8.8	27.0	11.9	21.0	10.2	6.6	11.6	14.9		10.2	10.4	15.6
16	8.0	27.2	11.6	17.8	9.4	6.8	14.3	13.4		8.9	10.8	16.7
17	7.6	26.8	11.5	15.6	8.7	6.9	15.6	12.3		7.9	10.7	18.2
18	6.7	26.1	12.0	14.3	8.1	7.1	15.9	11.5		7.1	10.3	19.2
19	6.2	25.0	12.8	13.6	7.4	7.5	15.8	11.2		6.5	9.7	19.1
20	4.9	24.0	14.5	13.5	6.9	7.6	15.6	10.7		6.1	9.2	18.2
21	4.6	23.0	18.4	13.8	6.5	7.7	15.8	10.6		5.8	8.8	16.9
22	5.4	22.0	23.7	14.0	6.2	7.5	17.3	10.4		5.8	8.6	15.6
23	5.5	20.8	27.5	14.1	6.1	7.4	20.5	10.3		6.5	8.4	14.7
24	5.1	19.1	29.5	13.7	7.4	7.4	24.0	9.7		7.2	8.2	14.1
25	4.9	17.0	30.6	13.2	8.0	7.5	25.1	8.9		7.9	8.0	13.6
26	5.0	15.6	30.8	12.6	7.6	9.4	24.6	8.2		8.2	7.8	12.9
27	5.4	13.9	30.7	12.1	7.0	10.2	23.5	7.8		8.3	7.8	12.1
28	6.3	12.5	30.0	11.5	7.6	9.6	23.2	7.5		8.2	7.3	11.3
29	8.1	11.4	28.9	11.3	7.2	9.2	24.4	7.5		7.9	10.4	10.5
30	9.2		27.9	11.4	9.0	9.5	26.6	7.6		8.0	13.8	9.8
31	10.2		27.5		10.6		28.0	8.1		8.1		9.1

1897.

1	8.5	Frozen.	43.0	34.3		10.4	11.3	16.5				
2	8.1		43.9	33.8		9.8	10.5	16.0				
3	7.7		44.4	32.6		9.4	10.4	15.5				
4	7.0		44.7	31.4		8.8	10.2	14.3				
5	6.5		44.5	30.0	17.6	8.4	9.6	13.0				9.1
6	6.9	10.5	44.0	28.5	19.1	8.0		12.0				10.3
7	7.5	11.6	43.3	27.1	19.6			11.1				11.3
8	8.4	15.3	43.0	26.4	22.1			10.5				11.6
9	9.5	20.0	42.7	26.8	22.8		9.2	9.9				11.1
10	10.5	27.2	42.4	29.1	22.8		11.3	9.3				10.5
11	11.0	27.2	42.4	30.9	23.3		11.4	8.4				10.1
12	11.5	33.2	42.7	32.3	21.5		10.6					10.0
13	11.8	34.0	43.7	33.0	21.0		8.7					10.6
14	11.8	34.2	44.5	33.3	21.0							11.1
15	11.8	33.9	45.0	33.6	21.6							11.1
16	11.8	33.2	45.1	34.0	22.1							10.9
17	11.9	32.1	44.9	34.3	22.4							11.3
18	12.7	30.9	44.6	34.6	23.1	7.6						9.8
19	14.0	29.6	44.1	34.4	24.4	8.0						9.7
20	15.1	28.3	43.9	33.8	25.5	8.4						10.1
21	15.7	26.9	43.5	32.9	25.5	8.7						11.2
22	16.1	27.0	43.1	31.8	24.6	8.7						13.4
23	16.5	29.9	42.5	30.2	23.0	9.5						15.9
24	16.5	34.0	41.7	27.9	21.3	10.3						17.4
25		36.8	40.9	25.0		11.0						18.0
26		39.1	40.2	22.4	17.0	12.1						18.0
27		40.5	39.5	20.1		13.8						17.8
28		41.9	38.7			14.0						17.2
29			37.6	17.4	12.7	13.4						16.7
30			36.5	16.3	11.9	12.3						15.8
31			35.2		11.0		16.6					14.7

DAILY RIVER STAGES.

Ohio River system—Ohio River, Mount Vernon, Ind.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.5	43.4	24.8	47.6	17.0	19.3	11.1	7.3	11.1	3.9	16.1	12.0
2	12.6	42.7	24.0	48.1	18.7	18.6	10.0	7.5	10.0	4.2	14.0	11.2
3	11.5	41.6	22.7	48.3	20.4	17.5	8.8	7.7	8.8	4.5	12.8	10.5
4	10.8	40.3	21.2	48.1	20.8	15.9	7.8	7.7	8.6	4.9	11.0	9.8
5	10.0	38.4	19.2	47.7	20.5	14.4	7.0	7.8	7.2	5.0	10.9	9.7
6	9.5	35.6	17.5	47.3	19.4	13.0	6.6	8.0	6.9	4.8	10.8	9.4
7	9.8	32.1	15.9	46.5	19.2	12.0	6.6	8.3	6.4	4.4	9.7	9.7
8	10.1	27.9	14.6	45.5	19.8	10.9	6.7	8.5	6.2	3.9	9.0	10.5
9	10.8	23.3	13.6	43.8	21.1	10.0	6.4	8.6	6.2	-----	8.6	10.8
10	11.8	19.3	12.8	41.9	22.3	9.4	6.0	8.8	6.0	-----	8.7	12.4
11	13.6	16.3	12.1	39.7	22.4	8.8	5.6	11.3	5.8	-----	9.0	12.5
12	19.8	14.0	11.9	37.1	21.9	8.1	5.5	13.8	5.6	5.3	9.7	12.7
13	24.2	12.5	11.5	34.0	21.2	7.9	5.4	15.5	5.4	6.4	11.4	13.0
14	26.1	11.8	12.2	30.6	20.6	7.7	5.3	18.6	5.2	6.8	13.5	12.8
15	28.2	12.0	15.6	27.1	20.1	7.0	5.2	23.4	5.4	5.9	14.9	12.3
16	30.4	12.9	18.7	23.9	19.5	6.7	5.1	26.2	5.7	5.7	16.6	12.0
17	32.1	14.0	22.1	21.8	18.6	6.5	4.9	26.8	5.6	5.4	18.0	11.2
18	33.7	15.6	24.3	20.3	17.5	6.4	4.7	26.0	5.5	5.3	19.0	10.3
19	35.0	17.9	26.4	19.6	16.7	6.4	4.4	24.5	5.3	5.1	19.4	9.0
20	36.4	20.3	27.8	18.7	16.1	6.5	4.3	22.5	5.0	4.8	18.8	8.9
21	37.9	22.3	30.1	18.2	16.4	6.6	4.2	20.0	4.7	4.5	18.0	9.7
22	39.1	23.2	33.1	17.6	18.2	6.7	4.2	17.3	4.4	4.4	17.5	11.0
23	40.5	23.9	35.5	17.2	20.8	7.2	4.3	14.7	4.1	4.9	15.9	12.4
24	41.3	24.2	37.1	16.8	22.3	7.8	4.7	12.7	-----	5.4	14.4	14.3
25	42.3	24.6	38.5	16.4	22.6	8.4	5.0	11.4	-----	5.8	13.5	16.7
26	42.9	24.6	39.6	16.4	22.3	9.0	5.5	10.6	4.4	6.5	13.1	18.4
27	43.5	24.8	41.0	17.2	21.5	9.8	5.7	10.7	4.3	7.5	13.1	19.6
28	44.0	25.0	42.4	17.6	20.3	11.4	5.9	12.4	4.3	9.3	13.0	21.0
29	44.1	-----	43.8	17.3	19.6	12.3	6.2	13.4	4.0	12.2	12.6	22.5
30	44.1	-----	45.3	16.8	19.6	12.1	6.5	13.2	-----	15.0	12.1	23.3
31	43.7	-----	46.6	-----	19.6	-----	6.9	12.3	-----	16.2	-----	23.3

1899.

1	22.3	25.2	33.0	37.6	14.2	12.1	8.2	7.0	-----	-----	-----	5.0
2	21.0	23.7	33.9	38.6	12.5	11.0	7.9	6.9	-----	-----	-----	5.2
3	19.8	21.0	34.4	39.3	12.5	10.3	7.6	6.4	-----	-----	-----	5.6
4	18.6	19.7	34.9	39.9	12.4	10.0	7.5	6.0	-----	-----	-----	5.0
5	18.4	18.3	35.2	40.4	11.9	9.6	7.5	5.5	-----	-----	-----	4.8
6	18.0	17.0	36.6	40.4	11.9	9.4	7.0	5.4	-----	-----	-----	4.5
7	18.2	18.5	38.0	40.0	11.9	10.1	6.7	5.8	-----	-----	-----	4.3
8	20.1	19.7	39.4	39.0	12.0	11.5	6.3	6.0	-----	-----	-----	4.0
9	22.3	23.8	40.4	37.4	12.5	12.4	6.0	7.0	-----	-----	-----	4.0
10	25.0	27.5	41.4	35.5	13.1	12.9	6.0	8.7	-----	-----	-----	4.2
11	28.9	29.6	42.3	33.7	13.6	12.9	6.0	9.5	-----	-----	-----	4.4
12	31.3	30.7	42.9	31.4	13.8	12.3	6.0	9.2	-----	-----	-----	4.6
13	32.8	31.1	43.3	30.0	16.3	11.6	5.4	8.9	-----	-----	-----	5.3
14	34.1	27.9	43.2	29.2	18.7	10.9	5.2	9.2	-----	-----	-----	6.2
15	35.3	Frozen.	42.0	28.4	21.0	10.0	5.0	10.3	-----	-----	-----	6.8
16	36.5	-----	41.4	27.6	22.0	9.4	4.6	10.0	-----	-----	-----	7.5
17	37.9	-----	39.8	26.3	21.8	9.4	4.5	9.0	-----	-----	-----	7.7
18	38.6	-----	37.8	24.6	21.0	9.3	4.4	8.0	-----	-----	-----	7.5
19	38.9	-----	35.9	22.8	20.0	9.1	4.4	7.2	-----	-----	-----	7.3
20	38.8	-----	34.5	21.0	19.0	9.5	3.0	6.6	-----	-----	-----	8.5
21	38.4	16.3	33.4	19.4	17.5	10.6	3.0	6.0	-----	-----	-----	12.0
22	37.8	-----	33.0	18.0	16.5	11.4	3.0	5.4	-----	-----	-----	15.2
23	37.0	-----	33.0	17.0	15.0	11.4	3.6	5.0	-----	-----	-----	16.2
24	36.0	-----	33.8	16.2	13.9	10.9	4.4	5.0	-----	-----	-----	15.6
25	35.0	-----	34.9	15.5	13.2	10.6	5.3	4.8	-----	-----	-----	15.2
26	33.7	28.6	35.8	15.3	14.0	10.1	5.6	4.5	-----	-----	-----	14.8
27	30.4	30.1	36.2	15.5	15.7	9.8	6.1	4.2	-----	-----	-----	15.2
28	29.2	31.8	36.4	15.8	16.1	9.1	6.4	4.0	-----	-----	-----	16.1
29	28.6	-----	36.5	15.2	15.4	8.7	7.3	4.0	-----	-----	-----	16.4
30	27.7	-----	36.6	14.6	14.3	8.4	7.3	-----	-----	-----	-----	16.0
31	27.0	-----	37.0	-----	13.1	-----	7.3	-----	-----	-----	-----	Frozen.

DAILY RIVER STAGES.

285

*Ohio River system—Ohio River, Paducah, Ky.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.0	10.7	11.1	27.4	11.3	18.7	9.5	24.1	6.6	1.8	4.7	15.3
2	17.2	12.3	10.5	28.8	11.3	18.8	9.8	24.5	6.6	1.8	4.8	18.1
3	17.2	15.5	9.9	30.4	12.0	18.5	10.5	24.4	6.5	1.9	5.1	19.5
4	17.3	19.4	9.5	31.9	12.4	18.0	11.4	24.0	6.3	2.3	5.3	20.2
5	16.8	22.1	9.1	33.5	12.2	17.5	12.3	23.6	6.0	3.2	5.4	21.1
6	16.3	23.6	8.9	34.4	11.7	17.1	12.7	23.5	5.5	4.6	5.1	21.8
7	15.5	24.8	10.1	35.4	11.1	16.7	13.3	23.4	4.8	5.9	4.9	21.5
8	14.6	25.2	11.3	36.2	10.5	16.4	13.7	23.3	4.2	7.2	4.6	20.2
9	13.7	25.2	12.1	36.8	10.0	15.9	13.6	23.0	3.7	8.8	4.3	18.5
10	12.9	25.0	12.9	37.2	9.6	15.2	13.4	22.3	3.3	10.4	4.1	16.9
11	12.1	25.3	13.2	37.3	9.4	14.5	12.8	21.3	3.0	11.0	4.2	15.5
12	11.4	25.8	13.3	37.0	9.3	13.8	12.4	20.0	2.7	11.0	4.3	14.4
13	10.7	26.3	13.3	36.1	9.3	13.2	11.1	18.5	2.5	10.4	4.3	13.9
14	9.8	27.2	13.0	34.3	9.3	12.2	11.4	16.8	2.4	9.5	4.7	13.4
15	9.0	27.8	12.6	31.0	9.1	11.4	12.8	14.9	2.3	8.4	6.3	13.2
16	8.3	28.4	12.2	26.2	8.6	10.6	14.5	13.1	2.2	7.4	7.7	13.2
17	7.6	28.6	12.3	21.8	8.3	9.9	16.0	11.7	2.1	6.5	8.5	13.8
18	7.1	28.4	14.3	18.1	7.8	9.1	16.7	10.7	2.3	5.7	8.9	14.8
19	6.5	27.9	16.5	15.2	7.6	8.6	17.1	9.9	2.2	5.0	9.2	15.7
20	6.1	27.2	18.5	13.7	7.2	8.3	17.5	9.3	1.9	4.5	8.9	15.9
21	5.7	26.0	20.4	12.6	7.5	8.3	17.8	9.0	1.8	4.1	8.4	15.3
22	5.4	24.4	23.5	12.1	8.9	8.2	18.6	8.7	1.8	3.7	7.8	14.3
23	5.3	22.3	26.1	11.9	11.4	7.9	20.1	8.6	1.7	3.7	7.3	13.4
24	5.6	20.6	28.5	11.9	12.9	7.9	22.2	8.4	1.6	3.9	6.9	12.6
25	5.6	18.7	29.9	11.6	13.9	7.8	23.8	8.0	1.6	4.1	6.5	12.0
26	5.6	16.8	30.5	11.2	14.9	7.6	24.1	7.6	1.6	4.4	6.1	11.4
27	5.7	15.0	30.4	10.8	15.9	8.2	23.5	7.0	1.6	4.7	6.3	10.9
28	6.0	13.4	29.4	10.5	17.2	9.0	22.9	6.5	1.9	4.9	7.5	10.2
29	6.8	12.1	28.2	10.7	17.7	9.4	22.4	6.3	1.8	4.8	9.5	9.6
30	8.4		27.1	11.2	17.8	9.4	22.4	6.3	1.8	4.8	11.8	8.8
31	9.8		26.0		17.9		23.2	6.4		4.7		8.1

1897.

1	7.6	11.0	38.0	47.0	23.9	10.9	12.1	15.4	3.7	0.1	0.2	4.9
2	7.0	10.4	39.6	46.2	24.0	10.1	12.1	15.0	3.7	0.1	0.3	5.0
3	6.5	9.7	41.2	45.1	24.1	9.5	11.8	14.1	3.6	0.0	0.3	5.2
4	6.5	9.9	42.2	44.3	24.0	8.8	11.6	13.1	3.5	-0.1	0.2	5.1
5	6.8	10.7	43.1	43.4	24.0	8.1	11.3	12.0	3.2	-0.1	0.1	5.0
6	7.4	12.2	43.7	42.4	24.2	7.9	11.0	10.8	2.8	-0.1	0.1	4.8
7	11.1	14.0	43.5	41.4	24.4	7.7	10.4	9.8	2.5	-0.2	0.0	5.5
8	13.4	15.8	43.2	40.7	24.7	7.5	9.6	8.9	2.3	-0.3	0.0	6.9
9	14.5	18.4	43.3	40.9	24.8	7.4	8.9	8.3	2.1	-0.3	0.0	7.9
10	14.5	21.4	44.1	40.8	25.0	7.2	8.7	7.9	1.9	-0.3	0.1	8.4
11	13.8	24.3	44.1	40.9	24.4	7.1	9.3	7.7	1.8	-0.3	0.2	8.5
12	12.9	26.0	44.2	41.2	23.7	6.8	10.0	7.3	1.6	-0.2	0.4	8.0
13	12.2	28.5	44.8	41.5	23.0	6.5	9.3	6.8	1.5	-0.2	0.5	7.7
14	12.1	30.0	45.6	41.8	22.3	6.2	9.1	6.3	1.4	-0.2	0.8	7.3
15	12.1	30.4	46.5	42.0	22.3	6.0	8.4	6.0	1.3	-0.2	1.5	7.3
16	12.5	30.3	47.2	41.9	23.2	5.9	7.6	5.9	1.2	-0.2	2.3	7.5
17	13.1	29.7	47.8	41.4	24.4	6.0	7.0	5.5	1.2	-0.1	2.5	7.9
18	14.5	29.1	48.4	40.4	25.5	6.2	6.5	5.2	1.1	-0.1	2.3	7.8
19	15.1	28.3	48.9	39.2	26.4	6.4	6.3	4.7	1.0	-0.2	2.0	7.6
20	16.1	27.5	49.3	37.9	27.4	6.6	6.3	4.5	0.9	-0.1	1.9	7.5
21	17.8	26.5	49.6	36.8	27.9	6.7	6.4	4.1	0.8	-0.1	1.8	7.7
22	18.7	26.5	50.0	35.9	27.2	6.8	6.7	3.9	0.8	-0.1	2.1	8.6
23	19.2	27.1	50.5	34.7	25.6	7.0	7.5	3.7	0.7	0.0	2.8	10.9
24	19.8	28.2	50.9	33.4	23.5	8.0	8.0	3.4	0.6	0.0	3.1	13.7
25	19.2	30.4	50.9	31.7	21.7	8.9	8.1	3.2	0.6	0.0	3.5	16.2
26	18.8	32.5	50.8	30.4	18.9	9.6	8.4	3.3	0.5	0.0	4.0	17.5
27	18.0	34.5	50.5	28.6	16.7	10.4	8.8	3.5	0.4	0.0	4.2	18.0
28	17.0	36.4	50.1	26.7	15.1	11.3	9.7	3.4	0.3	0.0	4.4	17.8
29	15.5		49.5	25.3	13.8	12.0	11.1	3.4	0.3	0.2	4.7	16.9
30	13.8		48.9	24.3	12.6	12.0	13.0	3.4	0.2	0.2	4.8	15.8
31	12.1		47.7		11.8		14.7	3.5		0.1		14.5

Ohio River system—Ohio River, Paducah, Ky.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.4	43.7	20.2	44.0	19.6	19.8	12.3	6.8	9.4	5.8	12.8	11.1
2	12.0	43.3	20.0	45.2	19.4	19.5	12.3	7.2	8.7	5.9	13.0	10.6
3	11.0	42.5	19.5	45.9	19.4	18.9	11.8	7.7	7.9	5.5	12.5	10.0
4	10.0	41.0	18.7	46.5	19.8	18.0	11.2	8.1	7.0	5.0	11.7	9.6
5	9.1	39.3	17.6	47.1	20.1	16.8	10.3	8.5	6.4	4.6	10.7	9.3
6	8.5	37.0	16.1	47.3	20.5	15.5	9.3	8.9	5.8	4.5	9.8	8.8
7	8.0	34.3	14.9	47.2	21.0	14.2	8.3	9.5	5.5	4.4	8.9	9.0
8	7.6	31.6	13.6	46.8	20.9	13.1	7.7	9.5	7.0	4.2	8.0	9.1
9	7.8	27.8	12.5	46.0	20.9	12.1	7.8	8.8	9.2	4.0	7.5	9.5
10	8.1	23.4	11.5	45.1	21.2	11.0	8.8	9.0	10.6	4.7	7.5	10.1
11	8.7	19.5	10.8	44.0	21.5	10.0	9.1	11.6	11.1	7.5	8.0	10.8
12	10.3	16.3	10.5	42.5	21.4	9.1	8.9	14.6	10.6	8.9	8.6	11.1
13	15.8	13.8	11.4	40.8	20.8	8.9	8.5	16.3	9.6	9.1	9.3	11.3
14	20.5	12.0	11.8	38.6	20.1	8.6	7.7	17.0	8.5	8.8	10.1	11.4
15	24.5	11.4	13.0	35.8	19.3	9.5	6.9	17.8	7.5	8.1	11.5	10.6
16	27.5	11.0	17.1	33.0	18.7	10.1	6.2	20.0	7.0	7.8	13.0	10.1
17	30.2	11.2	20.1	29.5	18.1	10.5	5.6	22.1	6.4	6.9	14.4	9.6
18	32.3	11.9	22.8	27.3	17.3	11.1	5.1	23.0	5.9	6.7	15.5	9.5
19	33.7	12.8	25.0	25.3	16.7	12.0	4.6	23.0	5.6	6.4	16.0	8.5
20	35.8	14.5	27.0	23.9	16.7	12.3	4.1	22.0	5.2	6.1	16.0	8.6
21	36.7	15.8	29.0	22.9	16.9	12.2	3.7	20.0	4.8	6.0	15.8	8.7
22	37.5	17.5	30.1	22.6	17.5	11.6	3.5	18.2	4.5	5.7	15.3	8.8
23	40.0	18.3	31.2	22.7	19.4	10.8	3.8	16.0	4.3	5.4	14.4	9.5
24	40.9	19.1	32.9	21.5	21.4	9.7	4.0	13.9	3.9	5.7	13.4	10.9
25	41.8	19.7	34.4	20.6	22.7	9.2	4.0	12.1	3.7	6.8	12.7	12.9
26	42.6	19.9	35.6	19.7	23.1	9.0	4.1	10.7	3.5	7.8	12.2	14.4
27	43.0	20.0	36.8	19.6	22.9	9.4	4.3	9.5	3.5	8.6	12.0	15.7
28	43.3	20.1	37.9	19.7	22.5	10.2	4.9	8.9	3.6	8.8	11.9	16.7
29	43.5		39.4	20.1	21.5	10.9	5.6	9.1	3.9	9.2	11.9	17.5
30	43.8		41.0	20.2	20.8	11.8	6.0	9.6	4.4	10.5	11.7	18.3
31	43.8		42.5		20.2		6.5	9.7		11.8		18.7

1899.

1	18.5	26.0	33.4	43.7	22.1	14.9	8.2	6.8	2.1	1.1	0.6	2.9
2	18.0	24.5	35.1	43.7	21.1	14.2	8.1	6.6	2.0	1.0	0.8	3.0
3	17.2	21.6	36.2	43.7	20.8	13.4	7.9	6.3	1.9	1.0	0.8	3.1
4	16.3	19.7	37.0	43.8	19.8	12.8	7.8	6.0	1.7	1.0	0.6	3.2
5	15.0	19.5	38.0	43.8	18.7	12.7	7.9	5.8	1.5	0.9	0.5	2.9
6	14.1	19.5	38.7	43.7	17.4	12.6	8.1	5.6	1.5	0.9	0.5	2.7
7	16.5	21.8	39.0	43.6	16.4	12.7	8.2	5.4	1.5	0.9	0.5	2.7
8	20.0	24.0	39.4	43.3	16.0	12.7	8.4	5.2	1.4	0.8	0.5	2.7
9	23.0	26.0	39.7	42.5	15.1	12.9	8.3	5.2	1.5	0.8	0.5	2.7
10	25.6	28.4	40.1	41.6	14.8	13.1	8.2	5.3	1.5	0.7	0.5	2.7
11	28.3	30.0	40.6	40.2	16.5	13.3	8.1	5.9	1.6	0.6	0.6	2.7
12	30.5	31.9	41.4	38.8	17.7	13.3	8.0	6.5	1.5	0.6	0.6	2.9
13	32.5	32.8	42.0	37.2	19.7	13.1	8.1	6.9	1.4	0.5	0.7	3.1
14	34.5	33.0	42.5	35.8	21.6	13.2	8.2	7.0	1.3	0.5	0.8	4.8
15	36.0	32.7	42.8	34.4	22.8	13.2	8.0	7.1	1.2	0.5	1.0	6.0
16	36.3	31.7	42.7	32.8	23.9	13.0	7.7	7.5	1.1	0.5	1.3	7.5
17	36.5	29.7	42.6	31.0	24.1	12.5	7.1	7.6	1.1	0.6	1.9	8.6
18	36.6	27.3	42.4	28.8	23.7	11.9	6.5	7.1	1.2	0.8	2.2	9.1
19	36.4	25.6	42.3	26.7	22.9	11.7	6.0	6.4	1.2	0.8	2.4	9.2
20	36.2	24.4	41.9	24.3	21.8	11.6	5.5	5.7	1.3	0.9	2.4	8.9
21	35.7	23.1	41.6	22.4	20.3	11.4	5.2	5.2	1.3	1.0	2.1	9.1
22	34.9	22.0	41.4	20.8	19.2	11.1	5.0	4.7	1.3	0.9	2.2	11.1
23	34.0	22.1	41.4	19.4	17.9	(¹)	4.9	4.4	1.4	0.9	2.1	13.2
24	33.4	22.3	41.4	18.8	16.8	11.7	4.7	4.0	1.3	0.8	2.2	14.4
25	33.0	23.8	41.6	19.0	16.1	11.1	4.9	3.7	1.4	0.8	2.3	14.8
26	32.4	26.7	41.9	19.9	15.9	10.5	5.6	3.4	1.4	0.8	2.4	15.2
27	31.6	29.0	42.2	21.1	16.1	9.8	5.9	3.2	1.3	0.8	2.4	15.4
28	30.4	31.3	42.7	22.1	16.7	9.3	6.1	3.0	1.3	0.7	2.4	15.5
29	28.9		43.0	22.5	17.0	8.9	6.2	2.8	1.3	0.7	2.4	15.6
30	27.9		43.3	22.4	16.7	8.5	6.5	2.5	1.2	0.7	2.5	15.5
31	28.5		43.6		15.9		6.8	2.3		0.7		14.8

¹ Gage obstructed.

DAILY RIVER STAGES.

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Ohio River system—Ohio River, Cairo, Ill.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.3	13.1	16.4	30.7	18.7	32.6	21.3	31.3	13.3	8.0	7.6	17.1
2	26.1	14.2	16.0	31.7	19.4	32.6	21.4	31.5	13.0	7.4	7.6	20.2
3	25.5	16.5	15.7	32.8	20.2	32.2	21.6	31.4	12.7	7.2	7.7	22.1
4	25.6	20.4	15.6	34.0	21.0	31.8	22.3	31.2	12.2	7.0	8.0	23.0
5	24.1	23.6	15.4	35.1	21.2	31.4	23.0	31.0	11.8	7.2	8.3	23.8
6	23.2	25.6	15.2	35.9	21.0	31.0	23.6	30.8	11.1	8.2	8.8	24.6
7	22.0	27.1	15.3	36.8	20.5	30.7	24.1	30.7	10.3	9.3	9.2	24.9
8	20.8	27.8	16.1	37.4	20.1	30.4	24.4	30.6	9.4	10.5	9.7	24.3
9	19.8	28.2	16.9	38.0	19.6	29.8	24.3	30.6	8.5	11.8	10.0	23.0
10	18.6	28.2	17.5	38.4	19.3	29.2	24.1	30.0	7.9	13.3	10.5	21.5
11	17.5	28.1	17.7	38.7	19.2	28.6	23.9	29.1	7.4	14.5	10.3	19.9
12	16.5	28.3	17.8	38.8	19.2	28.0	23.2	28.0	6.8	14.9	10.0	18.7
13	15.5	28.8	17.7	39.2	19.3	27.2	22.2	26.6	6.4	14.7	9.7	17.3
14	14.4	29.4	17.6	38.9	19.5	26.3	21.5	25.2	6.0	14.0	9.6	17.0
15	13.4	30.4	17.3	37.5	19.3	25.0	21.8	23.6	5.7	13.0	10.0	16.7
16	12.5	31.4	16.8	34.6	18.8	24.1	22.6	21.7	5.6	12.0	11.4	16.6
17	11.7	32.2	16.5	30.9	18.7	22.9	23.5	20.2	5.7	11.2	12.5	16.8
18	11.0	32.3	17.1	27.5	18.2	21.7	24.1	18.3	5.9	10.5	13.2	17.7
19	10.3	32.0	18.9	24.5	17.5	21.0	24.4	17.5	6.1	9.8	13.5	18.8
20	9.7	31.2	20.7	22.3	17.7	21.1	24.8	16.7	5.9	9.1	13.5	19.6
21	9.2	30.4	22.4	20.7	20.0	21.2	25.4	16.1	6.2	8.3	13.3	19.7
22	8.8	29.1	24.4	19.6	22.9	21.2	26.6	16.0	6.6	7.8	12.9	19.4
23	8.6	27.3	26.8	19.0	25.6	21.0	28.7	16.3	7.2	7.5	12.4	18.8
24	8.7	25.4	29.5	18.7	27.1	20.8	31.5	16.6	8.0	7.3	11.8	18.0
25	9.2	23.4	31.5	18.4	28.3	20.4	33.5	16.7	8.8	7.4	11.3	17.3
26	9.3	21.5	32.5	18.0	29.4	19.9	34.0	16.4	9.0	7.9	11.0	16.7
27	9.4	19.8	32.9	17.6	30.3	19.9	33.4	15.8	9.0	7.9	10.8	16.1
28	9.5	18.2	32.9	17.3	31.3	20.3	32.4	15.0	8.8	8.0	11.0	15.5
29	9.8	17.1	32.3	17.4	32.2	20.8	31.7	14.4	8.6	8.0	12.4	14.8
30	10.6	.....	31.3	18.0	32.3	21.1	31.1	14.0	8.3	7.9	14.3	13.7
31	12.0	.....	30.4	.....	32.2	.....	30.9	13.5	.....	7.7	.....	13.2

1897.

1	12.5	17.5	41.1	50.6	37.0	21.7	24.2	23.6	9.0	3.6	2.8	7.3
2	11.9	15.8	42.0	50.5	37.3	20.8	24.9	23.3	9.0	3.5	2.9	7.4
3	11.4	14.7	43.0	50.3	37.5	19.9	24.7	22.6	8.9	3.4	2.9	7.6
4	11.4	14.0	44.0	50.4	37.6	19.1	24.4	21.8	8.6	3.3	2.8	7.5
5	13.3	14.7	44.9	50.1	37.5	18.7	24.4	20.8	8.0	3.2	2.8	7.3
6	21.5	15.7	46.0	49.7	37.5	18.4	24.4	19.8	7.7	3.1	2.7	7.0
7	25.2	17.4	47.0	49.2	37.5	18.8	23.9	18.7	7.5	3.0	2.7	6.9
8	27.3	19.4	47.6	48.8	37.4	19.0	22.9	17.8	7.3	2.9	2.7	7.4
9	28.2	21.6	48.0	48.8	37.3	19.1	22.2	17.0	7.0	2.8	2.6	8.5
10	27.3	24.2	48.5	48.8	37.0	19.1	21.8	16.4	6.5	2.8	3.0	9.3
11	26.1	27.0	48.6	48.8	36.4	19.0	22.1	16.0	6.0	2.7	3.1	9.5
12	24.4	22.2	48.4	49.0	35.6	18.6	22.3	15.8	5.7	2.7	3.3	9.3
13	22.6	31.7	48.4	49.2	34.7	18.2	21.8	15.3	5.6	2.8	3.5	8.9
14	21.0	33.3	48.7	49.3	33.7	17.8	21.0	14.7	5.4	2.8	3.7	8.6
15	20.0	34.2	49.0	49.3	33.1	17.4	20.2	14.1	5.1	2.8	4.2	8.3
16	19.4	34.7	49.4	49.1	33.0	16.9	19.2	13.7	4.9	2.7	4.8	8.5
17	19.5	34.7	49.6	48.8	33.4	16.6	18.3	13.4	4.8	2.7	5.4	8.9
18	20.4	34.4	50.0	48.3	33.9	16.6	17.5	13.0	4.8	2.6	5.5	9.1
19	20.9	34.1	50.4	47.6	34.4	16.6	16.9	12.6	4.6	2.6	5.3	9.2
20	21.7	33.3	50.7	46.8	34.8	16.9	16.8	12.2	4.3	2.5	5.1	9.1
21	23.5	32.5	50.8	46.1	35.0	17.2	16.8	11.8	4.0	2.5	4.8	9.0
22	25.2	32.2	51.0	45.4	34.7	17.4	16.9	11.5	4.0	2.5	4.6	8.9
23	26.1	32.5	51.3	44.7	33.7	17.8	16.9	11.1	4.0	2.5	4.8	10.3
24	26.5	33.5	51.5	44.0	32.1	18.5	17.1	10.8	3.9	2.5	5.4	13.2
25	26.5	35.3	51.6	43.1	30.1	19.3	17.2	10.4	3.8	2.5	5.7	15.7
26	26.1	37.1	51.6	42.2	28.2	20.4	17.1	10.3	3.8	2.5	6.1	17.7
27	25.4	38.7	51.6	40.9	26.5	20.8	17.7	10.2	3.8	2.5	6.3	18.8
28	24.2	40.0	51.6	39.4	25.1	21.9	19.1	10.0	3.8	2.5	6.7	19.3
29	22.7	.....	51.5	38.2	24.0	22.7	21.0	9.7	3.8	2.5	6.9	19.0
30	20.8	.....	51.3	37.3	23.0	23.2	22.4	9.3	3.7	2.7	7.0	18.2
31	19.2	.....	50.9	.....	22.3	.....	23.3	9.1	.....	2.7	.....	17.3

DAILY RIVER STAGES.

Ohio River system—Ohio River, Cairo, Ill.—Continued.
1908.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.7	44.3	25.1	48.4	28.5	30.9	25.2	15.1	14.5	11.0	18.1	16.7
2	15.2	44.1	24.9	49.1	27.8	30.2	25.4	15.6	13.9	12.0	18.8	15.8
3	14.0	43.6	24.6	49.5	27.4	29.5	25.3	16.0	13.0	11.6	18.6	14.7
4	12.8	42.8	24.0	49.6	27.5	28.8	24.9	16.4	12.1	10.6	17.8	13.6
5	11.8	41.8	23.1	49.6	28.8	28.2	24.0	17.2	11.1	9.7	16.8	12.9
6	10.9	40.1	22.0	49.8	30.3	27.5	22.8	17.9	10.3	9.0	15.6	12.4
7	10.0	38.3	20.8	49.6	31.4	26.7	21.8	17.8	9.5	8.6	14.4	11.9
8	9.5	36.0	19.5	49.5	31.9	25.9	21.1	17.7	9.3	8.3	13.4	11.7
9	9.8	32.9	18.3	49.2	31.8	24.9	21.5	17.6	11.1	7.9	12.6	11.7
10	10.6	29.5	17.3	48.7	31.6	23.7	22.6	17.4	13.1	7.6	12.2	11.8
11	11.9	25.8	16.5	48.1	31.7	22.7	23.0	17.7	14.5	9.2	12.3	12.4
12	15.3	22.6	16.0	47.3	31.4	22.0	22.9	19.8	15.3	11.0	12.9	12.7
13	21.1	20.1	16.8	46.2	30.8	22.0	22.4	21.4	15.5	11.9	13.7	12.6
14	21.2	18.2	18.8	44.9	29.9	22.5	21.6	22.1	15.1	12.0	14.6	12.4
15	25.2	17.1	20.4	43.1	29.0	23.2	20.5	22.5	14.1	11.9	15.6	12.0
16	28.6	17.0	24.8	41.1	28.4	23.8	19.4	23.8	13.4	11.5	16.9	11.5
17	31.1	17.4	28.2	38.9	27.5	24.3	18.5	25.6	12.5	10.8	18.1	11.0
18	33.1	17.8	30.5	36.5	27.2	25.1	17.5	26.9	11.6	10.0	19.2	10.5
19	34.5	18.5	32.6	34.4	28.0	26.0	16.4	27.4	11.6	9.5	19.7	10.4
20	36.1	19.5	34.1	32.6	28.8	26.4	15.4	26.9	12.1	9.0	19.9	10.5
21	37.5	21.0	36.0	31.2	29.3	26.2	14.5	25.8	12.5	8.8	19.9	11.1
22	38.4	22.7	37.3	30.4	29.7	25.5	13.7	24.4	12.3	9.1	19.5	11.2
23	39.8	24.2	38.5	29.8	31.4	24.5	13.3	23.0	11.6	9.8	19.0	11.5
24	41.2	25.2	40.9	29.0	33.6	23.3	13.3	21.5	10.8	11.1	18.2	12.8
25	42.1	25.5	42.8	28.2	34.9	22.3	13.0	19.8	10.0	12.6	17.4	15.2
26	42.7	25.6	43.8	27.3	35.3	21.8	12.6	18.0	9.6	14.0	16.9	17.9
27	43.3	25.3	44.7	27.0	35.0	21.9	12.5	16.4	9.8	14.8	16.9	19.9
28	43.7	25.2	45.5	27.4	34.5	22.5	12.8	15.1	9.9	14.9	17.2	21.4
29	44.0	-----	46.2	28.7	33.7	23.1	13.6	14.5	9.9	14.7	17.6	22.4
30	44.2	-----	46.9	29.0	32.5	24.5	14.4	14.5	10.1	15.0	17.4	23.0
31	44.4	-----	47.6	-----	31.7	-----	14.8	14.6	-----	16.5	-----	23.2

1899.

1	23.3	28.2	36.1	46.2	34.1	27.9	21.4	16.9	7.6	4.7	3.7	6.9
2	22.9	26.2	38.6	46.2	33.9	27.3	21.4	16.7	7.4	4.6	3.7	7.0
3	22.0	24.4	39.9	46.2	33.4	26.6	21.4	16.4	7.2	4.4	3.6	7.2
4	21.0	22.4	40.6	46.2	32.5	26.4	21.2	16.2	7.1	4.3	3.6	7.0
5	20.4	20.9	41.3	46.1	31.5	26.3	21.4	15.9	6.9	4.2	3.6	6.9
6	20.2	20.2	41.8	46.1	29.9	26.3	21.8	15.4	6.6	4.1	3.8	6.8
7	20.0	21.6	42.0	46.1	28.6	26.3	22.1	15.1	6.4	4.0	4.0	6.6
8	21.2	23.8	42.4	46.1	27.9	26.3	22.4	14.8	6.2	3.8	4.2	6.5
9	24.0	25.8	42.6	45.9	27.0	26.2	22.5	14.6	6.0	3.7	4.4	6.5
10	26.7	28.0	42.8	45.3	26.4	26.2	22.4	14.3	5.9	3.6	4.6	6.5
11	29.0	30.1	43.0	44.5	27.1	26.3	22.3	14.5	5.9	3.4	4.8	6.5
12	31.3	31.7	43.4	43.7	28.2	26.2	22.2	15.9	6.0	3.4	5.0	6.6
13	33.0	33.0	43.9	42.6	29.7	26.2	22.4	17.2	6.0	3.3	5.2	6.6
14	35.4	33.8	44.4	41.7	31.5	26.4	22.5	17.6	5.9	3.1	5.4	7.0
15	37.2	33.9	44.7	41.0	32.7	26.8	22.3	17.6	5.9	3.0	5.6	8.9
16	37.9	33.4	45.0	39.9	33.7	26.8	21.8	17.5	5.8	3.0	5.9	10.6
17	38.1	32.2	45.2	38.4	34.0	26.2	21.8	17.5	5.7	3.1	6.3	11.7
18	38.2	30.3	45.6	36.6	33.7	25.2	20.6	17.0	5.6	3.2	6.7	12.6
19	38.3	28.6	45.7	34.6	33.0	24.8	20.0	16.0	5.6	3.2	7.1	12.8
20	38.3	27.3	45.8	32.8	32.0	24.6	19.5	15.1	5.6	3.3	7.2	12.6
21	38.0	26.6	45.8	31.1	30.7	24.6	19.3	14.1	5.7	3.4	7.1	12.6
22	37.5	26.3	45.9	29.8	29.6	24.6	19.0	13.3	5.9	3.4	7.0	13.5
23	36.8	25.6	45.9	29.0	28.8	24.6	18.7	12.6	5.8	3.4	6.9	15.8
24	36.0	25.1	46.0	28.9	28.4	24.5	18.3	12.0	5.7	3.3	6.8	17.3
25	35.6	25.6	45.9	30.5	28.6	24.3	17.9	11.2	5.6	3.2	7.0	17.9
26	35.2	27.4	45.9	31.9	28.8	23.2	17.9	10.5	5.4	3.1	7.1	18.2
27	34.4	30.7	45.9	33.2	29.1	22.5	17.9	9.9	5.3	3.0	7.3	18.4
28	33.7	33.3	46.0	34.1	29.6	22.0	17.9	9.3	5.2	3.1	7.3	18.3
29	32.5	-----	46.1	34.5	29.8	21.7	17.4	8.7	5.0	3.1	7.2	18.2
30	31.3	-----	46.2	34.4	29.5	21.5	17.2	8.4	4.9	3.2	7.0	17.9
31	30.0	-----	46.2	-----	28.8	-----	17.1	8.0	-----	3.3	-----	17.4

DAILY RIVER STAGES.

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*Ohio River system—Allegheny River, Warren, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.0	2.1	3.9	11.0	1.3	2.7	1.0	3.6	0.2	5.0	0.5	2.7
2	3.0	3.9	3.5	10.5	1.8	2.0	1.0	3.2	0.1	4.0	0.5	2.2
3	2.8	4.7	2.6	9.3	1.5	1.5	1.0	2.9	0.1	3.4	0.4	1.9
4	2.6	4.0	2.0	8.9	1.4	1.3	0.9	2.8	0.1	2.8	0.4	1.6
5	2.0	3.7	2.0	6.5	1.3	1.2	1.7	2.2	0.1	2.5	0.4	1.6
6	1.9	3.5	1.9	5.5	1.3	1.0	1.7	2.0	0.1	2.3	0.4	1.5
7	1.9	3.9	2.5	5.0	1.2	1.0	1.4	1.9	0.1	1.8	0.4	1.4
8	1.8	3.8	3.9	4.3	1.2	0.9	1.0	1.8	0.1	1.8	0.8	1.4
9	1.8	3.7	3.8	3.8	1.1	2.0	1.0	1.6	0.1	2.0	0.8	3.3
10	1.8	3.5	3.0	3.7	1.0	2.8	0.9	2.0	0.1	1.8	0.6	4.8
11	1.7	3.1	2.8	3.9	1.0	2.6	0.9	1.7	0.1	1.7	0.9	4.2
12	1.7	2.8	2.3	4.1	1.0	1.8	0.9	1.4	0.1	1.5	2.0	3.7
13	1.6	2.1	2.5	5.3	1.0	1.4	0.8	1.3	0.1	1.5	2.0	3.5
14	1.5	2.1	2.5	6.0	1.0	1.3	0.8	1.2	0.1	5.5	1.9	3.0
15	1.5	2.0	2.0	5.9	1.0	1.2	0.8	1.1	0.1	5.5	1.8	2.5
16	1.5	2.0	2.0	5.0	0.9	1.2	0.8	1.0	0.1	4.8	1.7	2.3
17	1.5	2.0	1.8	5.0	0.9	1.4	0.7	1.0	0.1	4.5	1.6	1.9
18	1.4	1.8	1.8	4.7	0.9	1.4	0.7	0.9	0.1	3.8	1.5	1.8
19	1.4	1.8	1.6	3.9	0.9	1.3	0.7	0.8	0.1	3.0	1.5	1.6
20	1.4	1.7	1.6	3.5	0.9	1.3	0.6	0.8	1.0	2.8	1.4	1.2
21	1.4	1.6	1.5	2.9	0.8	1.2	0.9	0.7	1.0	2.7	1.4	1.0
22	1.4	1.6	1.5	2.9	0.8	1.2	0.9	0.5	0.7	2.0	2.0	1.0
23	1.3	1.5	1.8	2.5	0.8	1.5	1.5	0.5	0.5	1.9	2.9	1.0
24	1.7	1.5	1.8	2.4	0.8	1.4	1.7	0.4	0.4	1.8	2.8	1.0
25	3.8	1.4	1.7	2.7	0.8	1.4	1.7	0.4	0.3	1.6	2.6	0.9
26	4.1	1.4	2.3	2.4	0.8	1.4	1.6	0.4	0.2	1.0	2.9	0.9
27	3.7	1.4	3.8	2.3	2.9	1.3	2.0	0.3	0.2	0.9	2.8	0.9
28	3.3	1.4	4.7	2.0	2.9	1.3	3.7	0.3	0.1	0.8	3.1	0.8
29	2.8	1.4	5.7	1.9	2.5	1.1	4.0	0.2	0.1	0.7	3.1	0.8
30	2.7	.....	9.4	1.8	1.3	1.1	4.9	0.2	1.0	0.6	3.0	0.8
31	2.2	.....	11.0	.....	2.6	.....	4.2	0.2	.....	0.5	.....	1.7

1897.

1	2.0	0.8	1.3	3.0	1.8	0.4	0.0	0.9	0.3	0.0	0.0	2.0
2	2.0	0.8	1.0	2.6	1.5	0.4	0.0	0.8	0.3	0.0	0.0	1.9
3	1.7	0.8	1.8	2.4	1.0	0.3	0.0	0.6	0.3	0.0	0.0	1.8
4	1.5	0.8	4.0	2.0	1.9	0.3	0.0	0.5	0.3	0.0	0.0	1.7
5	2.9	0.8	4.9	1.8	2.6	0.2	0.0	0.5	0.3	0.0	0.0	1.2
6	3.5	0.8	7.1	1.8	2.9	0.2	0.0	0.5	0.3	0.0	0.0	3.0
7	2.8	1.7	6.7	1.8	2.6	0.1	1.1	0.5	0.3	0.0	0.0	2.8
8	1.8	3.0	5.7	2.0	2.5	0.1	0.7	0.5	0.3	0.0	0.0	2.7
9	1.5	2.8	5.8	2.2	2.4	0.5	0.5	0.5	0.3	0.0	0.0	2.0
10	1.9	2.8	7.8	3.0	1.9	0.3	0.2	0.5	0.2	0.0	0.0	2.0
11	1.6	2.3	8.6	3.4	2.7	0.2	0.1	0.5	0.2	0.0	0.2	2.7
12	1.4	2.0	7.7	3.7	2.9	0.2	0.1	0.7	0.2	0.0	0.2	2.6
13	1.0	1.9	7.6	3.8	5.0	0.2	0.0	0.7	0.2	0.0	0.3	2.5
14	1.0	1.8	6.9	4.3	4.5	0.1	0.5	0.5	0.2	0.0	0.3	2.7
15	0.9	1.7	6.1	4.8	3.9	0.1	0.3	0.5	0.1	0.0	0.3	4.0
16	0.9	1.7	5.7	4.0	3.4	0.1	0.2	1.0	0.1	0.0	0.3	5.4
17	0.9	1.6	4.2	3.8	3.0	0.0	0.2	1.0	0.1	0.0	0.4	5.0
18	0.9	1.6	3.9	3.6	2.8	0.1	0.2	1.0	0.0	0.0	1.8	5.0
19	1.8	1.6	3.7	3.1	2.0	0.0	0.8	0.9	0.0	0.0	1.9	4.7
20	1.7	1.8	4.7	2.9	1.9	0.0	0.3	0.7	0.0	0.0	1.8	4.0
21	1.7	1.8	5.9	2.7	1.9	0.0	0.8	0.6	0.0	0.0	1.2	3.5
22	1.5	1.8	5.6	2.5	1.9	0.0	0.9	0.5	0.0	0.0	1.0	3.2
23	1.4	2.1	4.8	2.2	1.8	0.0	0.9	0.5	0.0	0.0	0.9	3.0
24	1.4	2.5	5.1	2.0	1.7	0.0	1.0	0.5	0.0	0.0	0.9	2.2
25	1.1	2.0	6.2	1.9	1.6	0.0	1.1	0.5	0.0	0.0	0.7	2.0
26	1.0	1.9	5.8	2.1	1.5	0.0	1.0	0.4	0.0	0.0	0.5	2.0
27	1.0	1.7	5.1	2.5	1.2	0.0	0.8	0.4	0.0	0.0	3.7	2.0
28	1.0	1.3	4.7	2.3	1.0	0.0	0.7	0.4	0.0	0.0	4.2	1.8
29	0.9	.....	4.1	2.0	1.0	0.0	0.6	0.4	0.0	0.0	4.0	1.6
30	0.9	.....	3.8	1.9	0.9	0.0	0.5	0.3	0.0	0.0	3.8	1.5
31	0.9	.....	3.2	.....	0.5	.....	1.0	0.3	.....	0.0	.....	1.5

DAILY RIVER STAGES.

Ohio River system—Ohio River, Cairo, Ill.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.7	44.3	25.1	48.4	28.5	30.9	25.2	15.1	14.5	11.0	18.1	16.7
2	15.2	44.1	24.9	49.1	27.8	30.2	25.4	15.6	13.9	12.0	18.8	15.8
3	14.0	43.6	24.6	49.5	27.4	29.5	25.3	16.0	13.0	11.6	18.6	14.7
4	12.8	42.8	24.0	49.6	27.5	28.8	24.9	16.4	12.1	10.6	17.8	13.6
5	11.8	41.8	23.1	49.6	28.8	28.2	24.0	17.2	11.1	9.7	16.8	12.9
6	10.9	40.1	22.0	49.8	30.3	27.5	22.8	17.9	10.3	9.0	15.6	12.4
7	10.0	38.3	20.8	49.6	31.4	26.7	21.8	17.8	9.5	8.6	14.4	11.9
8	9.5	36.0	19.5	49.5	31.9	25.9	21.1	17.7	9.3	8.3	13.4	11.7
9	9.5	32.9	18.3	49.2	31.8	24.9	21.5	17.6	11.1	7.9	12.6	11.7
10	9.8	29.5	17.3	48.7	31.6	23.7	22.6	17.4	13.1	7.6	12.2	11.8
11	10.6	25.8	16.5	48.1	31.7	22.7	23.0	17.7	14.5	9.2	12.3	12.4
12	11.9	22.6	16.0	47.3	31.4	22.0	22.9	19.8	15.3	11.0	12.9	12.7
13	15.3	20.1	16.8	46.2	30.8	22.0	22.4	21.4	15.5	11.9	13.7	12.6
14	21.1	18.2	18.8	44.9	29.9	22.5	21.6	22.1	15.1	12.0	14.6	12.4
15	25.2	17.1	20.4	43.1	29.0	23.2	20.5	22.5	14.1	11.9	15.6	12.0
16	28.6	17.0	24.8	41.1	28.4	23.8	19.4	23.8	13.4	11.5	16.9	11.5
17	31.1	17.4	28.2	38.9	27.5	24.3	18.5	25.6	12.5	10.8	18.1	11.0
18	33.1	17.8	30.5	36.5	27.2	25.1	17.5	26.9	11.6	10.0	19.2	10.5
19	34.5	18.5	32.6	34.4	28.0	26.0	16.4	27.4	11.6	9.5	19.7	10.4
20	36.1	19.5	34.1	32.6	28.8	26.4	15.4	26.9	12.1	9.0	19.9	10.5
21	37.5	21.0	36.0	31.2	29.3	26.2	14.5	25.8	12.5	8.8	19.9	11.1
22	38.4	22.7	37.3	30.4	29.7	25.5	13.7	24.4	12.3	9.1	19.5	11.2
23	39.8	24.2	38.5	29.8	31.4	24.5	13.3	23.0	11.6	9.8	19.0	11.5
24	41.2	25.2	40.9	29.0	33.6	23.3	13.0	21.5	10.8	11.1	18.2	12.8
25	42.1	25.5	42.8	28.2	34.9	22.3	13.0	19.8	10.0	12.6	17.4	15.2
26	42.7	25.6	43.8	27.3	35.3	21.8	12.6	18.0	9.6	14.0	16.9	17.9
27	43.3	25.3	44.7	27.0	35.0	21.9	12.5	16.4	9.8	14.8	16.9	19.9
28	43.7	25.2		27.4	34.5	22.5	12.8	15.1	9.9	14.9	17.2	21.4
29	44.0		46.2	28.7	33.7	23.1	13.6	14.5	9.9	14.7	17.6	22.4
30	44.2		46.9	29.0	32.5	24.5	14.4	14.5	10.1	15.0	17.4	23.0
31	44.4		47.6		31.7		14.8	14.6		16.5		23.2

1899.

1	23.3	28.2	36.1	46.2	34.1	27.9	21.4	16.9	7.6	4.7	3.7	6.9
2	22.9	26.2	38.6	46.2	33.9	27.3	21.4	16.7	7.4	4.6	3.7	7.0
3	22.0	24.4	39.9	46.2	33.4	26.6	21.4	16.4	7.2	4.4	3.6	7.2
4	21.0	22.4	40.6	46.2	32.5	26.4	21.2	16.2	7.1	4.3	3.6	7.0
5	20.4	20.9	41.3	46.1	31.5	26.3	21.4	15.9	6.9	4.2	3.6	6.9
6	20.2	20.2	41.8	46.1	29.9	26.3	21.8	15.4	6.6	4.1	3.8	6.8
7	20.0	21.6	42.0	46.1	28.6	26.3	22.1	15.1	6.4	4.0	4.0	6.6
8	21.2	23.8	42.4	46.1	27.9	26.3	22.4	14.8	6.2	3.8	4.2	6.5
9	24.0	25.8	42.6	45.9	27.0	26.2	22.5	14.6	6.0	3.7	4.4	6.5
10	26.7	28.0	42.8	45.3	26.4	26.2	22.4	14.3	5.9	3.6	4.6	6.5
11	29.0	30.1	43.0	44.5	27.1	26.3	22.3	14.5	5.9	3.4	4.8	6.5
12	31.3	31.7	43.4	43.7	28.2	26.2	22.2	15.9	6.0	3.4	5.0	6.6
13	33.0	33.0	43.9	42.6	29.7	26.2	22.4	17.2	6.0	3.3	5.2	6.6
14	35.4	33.8	44.4	41.7	31.5	26.4	22.5	17.6	5.9	3.1	5.4	7.0
15	37.2	33.9	44.7	41.0	32.7	26.8	22.3	17.6	5.9	3.0	5.6	8.9
16	37.9	33.4	45.0	39.9	33.7	26.8	21.8	17.5	5.8	3.0	5.9	10.6
17	38.1	32.2	45.2	38.4	34.0	26.2	21.8	17.5	5.7	3.1	6.3	11.7
18	38.2	30.3	45.6	36.6	33.7	25.2	20.6	17.0	5.6	3.2	6.7	12.6
19	38.3	28.6	45.7	34.6	33.0	24.8	20.0	16.0	5.6	3.2	7.1	12.8
20	38.3	27.3	45.8	32.8	32.0	24.6	19.5	15.1	5.6	3.3	7.2	12.6
21	38.0	26.6	45.8	31.1	30.7	24.6	19.3	14.1	5.7	3.4	7.1	12.6
22	37.5	26.3	45.9	29.8	29.6	24.6	19.0	13.3	5.9	3.4	7.0	13.5
23	36.8	25.6	45.9	29.0	28.8	24.6	18.7	12.6	5.8	3.4	6.9	15.8
24	36.0	25.1	46.0	28.9	28.4	24.5	18.3	12.0	5.7	3.3	6.8	17.3
25	35.6	25.6	45.9	30.5	28.6	24.3	17.9	11.2	5.6	3.2	7.0	17.9
26	35.2	27.4	45.9	31.9	28.8	23.2	17.9	10.5	5.4	3.1	7.1	18.2
27	34.4	30.7	45.9	33.2	29.1	22.5	17.9	9.9	5.3	3.0	7.3	18.4
28	33.7	33.3	46.0	34.1	29.6	22.0	17.9	9.3	5.2	3.1	7.3	18.3
29	32.5		46.1	34.5	29.8	21.7	17.4	8.7	5.0	3.1	7.2	18.2
30	31.3		46.2	34.4	29.5	21.5	17.2	8.4	4.9	3.2	7.0	17.9
31	30.0		46.2		28.8		17.1	8.0		3.3		17.4

DAILY RIVER STAGES.

289

Ohio River system—Allegheny River, Warren, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.0	2.1	3.9	11.0	1.3	2.7	1.0	3.6	0.2	5.0	0.5	2.7
2	3.0	3.9	3.5	10.5	1.8	2.0	1.0	3.2	0.1	4.0	0.5	2.2
3	2.8	4.7	2.6	9.3	1.5	1.5	1.0	2.9	0.1	3.4	0.4	1.9
4	2.6	4.0	2.0	8.9	1.4	1.3	0.9	2.8	0.1	2.8	0.4	1.6
5	2.0	3.7	2.0	6.5	1.3	1.2	1.7	2.2	0.1	2.5	0.4	1.6
6	1.9	3.5	1.9	5.5	1.3	1.0	1.7	2.0	0.1	2.3	0.4	1.5
7	1.9	3.9	2.5	5.0	1.2	1.0	1.4	1.9	0.1	1.8	0.4	1.4
8	1.8	3.8	3.9	4.3	1.2	0.9	1.0	1.8	0.1	1.8	0.8	1.4
9	1.8	3.7	3.8	3.8	1.1	2.0	1.0	1.6	0.1	2.0	0.8	3.3
10	1.8	3.5	3.0	3.7	1.0	2.8	0.9	2.0	0.1	1.8	0.6	4.8
11	1.7	3.1	2.8	3.9	1.0	2.6	0.9	1.7	0.1	1.7	0.9	4.2
12	1.7	2.8	2.3	4.1	1.0	1.8	0.9	1.4	0.1	1.5	2.0	3.7
13	1.6	2.1	2.5	5.3	1.0	1.4	0.8	1.3	0.1	1.5	2.0	3.5
14	1.5	2.1	2.5	6.0	1.0	1.3	0.8	1.2	0.1	5.5	1.9	3.0
15	1.5	2.0	2.0	5.9	1.0	1.2	0.8	1.1	0.1	5.5	1.8	2.5
16	1.5	2.0	2.0	5.0	0.9	1.2	0.8	1.0	0.1	4.8	1.7	2.3
17	1.5	2.0	1.8	5.0	0.9	1.4	0.7	1.0	0.1	4.5	1.6	1.9
18	1.4	1.8	1.8	4.7	0.9	1.4	0.7	0.9	0.1	3.8	1.5	1.8
19	1.4	1.8	1.6	3.9	0.9	1.3	0.7	0.8	0.1	3.0	1.5	1.6
20	1.4	1.7	1.6	3.5	0.9	1.3	0.6	0.8	1.0	2.8	1.4	1.2
21	1.4	1.6	1.5	2.9	0.8	1.2	0.9	0.7	1.0	2.7	1.4	1.0
22	1.4	1.6	1.5	2.9	0.8	1.2	0.9	0.5	0.7	2.0	2.0	1.0
23	1.3	1.5	1.8	2.5	0.8	1.5	1.5	0.5	0.5	1.9	2.9	1.0
24	1.7	1.5	1.8	2.4	0.8	1.4	1.7	0.4	0.4	1.8	2.8	1.0
25	3.8	1.4	1.7	2.7	0.8	1.4	1.7	0.4	0.3	1.6	2.6	0.9
26	4.1	1.4	2.3	2.4	0.8	1.4	1.6	0.4	0.2	1.0	2.9	0.9
27	3.7	1.4	3.8	2.3	2.9	1.3	2.0	0.3	0.2	0.9	2.8	0.9
28	3.3	1.4	4.7	2.0	2.9	1.3	3.7	0.3	0.1	0.8	3.1	0.8
29	2.8	1.4	5.7	1.9	2.5	1.1	4.0	0.2	0.1	0.7	3.1	0.8
30	2.7	-----	9.4	1.8	1.3	1.1	4.9	0.2	1.0	0.6	3.0	0.8
31	2.2	-----	11.0	-----	2.6	-----	4.2	0.2	-----	0.5	-----	1.7

1897.

1	2.0	0.8	1.3	3.0	1.8	0.4	0.0	0.9	0.3	0.0	0.0	2.0
2	2.0	0.8	1.0	2.6	1.5	0.4	0.0	0.8	0.3	0.0	0.0	1.9
3	1.7	0.8	1.8	2.4	1.0	0.3	0.0	0.6	0.3	0.0	0.0	1.8
4	1.5	0.8	4.0	2.0	1.9	0.3	0.0	0.5	0.3	0.0	0.0	1.7
5	2.9	0.8	4.9	1.8	2.6	0.2	0.0	0.5	0.3	0.0	0.0	1.2
6	3.5	0.8	7.1	1.8	2.9	0.2	0.0	0.5	0.3	0.0	0.0	3.0
7	2.8	1.7	6.7	1.8	2.6	0.1	1.1	0.5	0.3	0.0	0.0	2.8
8	1.8	3.0	5.7	2.0	2.5	0.1	0.7	0.5	0.3	0.0	0.0	2.7
9	1.5	2.8	5.8	2.2	2.4	0.5	0.5	0.5	0.3	0.0	0.0	2.0
10	1.9	2.8	7.8	3.0	1.9	0.3	0.2	0.5	0.2	0.0	0.0	2.0
11	1.6	2.3	8.6	3.4	2.7	0.2	0.1	0.5	0.2	0.0	0.2	2.7
12	1.4	2.0	7.7	3.7	2.9	0.2	0.1	0.7	0.2	0.0	0.2	2.6
13	1.0	1.9	7.6	3.8	5.0	0.2	0.0	0.7	0.2	0.0	0.3	2.5
14	1.0	1.8	6.9	4.3	4.5	0.1	0.5	0.5	0.2	0.0	0.3	2.7
15	0.9	1.7	6.1	4.8	3.9	0.1	0.3	0.5	0.1	0.0	0.3	4.0
16	0.9	1.7	5.7	4.0	3.4	0.1	0.2	1.0	0.1	0.0	0.3	5.4
17	0.9	1.6	4.2	3.8	3.0	0.0	0.2	1.0	0.1	0.0	0.4	5.0
18	0.9	1.6	3.9	3.6	2.8	0.1	0.2	1.0	0.0	0.0	1.8	5.0
19	1.8	1.6	3.7	3.1	2.0	0.0	0.8	0.9	0.0	0.0	1.9	4.7
20	1.7	1.8	4.7	2.9	1.9	0.0	0.3	0.7	0.0	0.0	1.8	4.0
21	1.7	1.8	5.9	2.7	1.9	0.0	0.8	0.6	0.0	0.0	1.2	3.5
22	1.5	1.8	5.6	2.5	1.9	0.0	0.9	0.5	0.0	0.0	1.0	3.2
23	1.4	2.1	4.8	2.2	1.8	0.0	0.9	0.5	0.0	0.0	0.9	3.0
24	1.4	2.5	5.1	2.0	1.7	0.0	1.0	0.5	0.0	0.0	0.9	2.2
25	1.1	2.0	6.2	1.9	1.6	0.0	1.1	0.5	0.0	0.0	0.7	2.0
26	1.0	1.9	5.8	2.1	1.5	0.0	1.0	0.4	0.0	0.0	0.5	2.0
27	1.0	1.7	5.1	2.5	1.2	0.0	0.8	0.4	0.0	0.0	3.7	2.0
28	1.0	1.3	4.7	2.3	1.0	0.0	0.7	0.4	0.0	0.0	4.2	1.8
29	0.9	-----	4.1	2.0	1.0	0.0	0.6	0.4	0.0	0.0	4.0	1.6
30	0.9	-----	3.8	1.9	0.9	0.0	0.5	0.3	0.0	0.0	3.8	1.5
31	0.9	-----	3.2	-----	0.5	-----	1.0	0.3	-----	0.0	-----	1.5

DAILY RIVER STAGES.

Ohio River system—Allegheny River, Warren, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.4	2.7	2.0	4.8	2.2	1.8	2.0	0.9	1.0	0.0	2.0	1.2
2	2.4	2.5	2.0	4.6	2.0	1.7	1.9	0.9	0.9	0.0	1.9	1.1
3	2.4	2.2	1.8	3.8	2.0	1.6	1.4	0.4	0.8	0.0	1.7	1.0
4	1.8	2.0	1.8	3.6	2.0	1.5	1.0	0.3	0.7	0.0	1.5	1.0
5	1.5	1.9	1.7	3.2	2.0	1.5	1.0	1.0	0.7	0.0	1.4	1.0
6	1.5	1.9	1.7	2.8	2.0	1.4	1.0	2.7	0.7	0.0	1.1	1.0
7	1.5	1.9	1.7	2.5	2.0	1.0	1.0	2.4	0.7	0.0	4.8	1.0
8	1.5	1.9	1.7	2.3	2.0	1.0	0.7	2.0	0.7	0.0	4.2	1.0
9	1.4	1.8	1.7	2.0	2.0	1.0	0.5	1.0	0.7	0.0	3.8	0.9
10	1.4	1.8	1.7	2.0	1.9	1.0	0.4	1.0	0.7	0.0	4.9	0.9
11	1.7	2.0	1.7	2.0	1.9	1.0	0.4	0.8	0.6	0.0	8.0	0.9
12	1.7	7.4	1.7	1.9	1.9	1.0	0.4	0.7	0.6	0.0	7.0	0.9
13	7.6	8.2	5.4	1.8	2.7	1.0	0.3	0.7	0.6	0.0	5.9	0.9
14	7.5	6.8	5.6	1.6	3.0	1.0	0.3	0.7	0.5	0.0	5.3	0.8
15	6.1	6.4	5.0	1.5	2.0	1.0	0.2	0.6	0.5	0.0	5.0	0.8
16	5.7	5.1	4.5	1.5	1.9	1.0	0.2	0.5	0.3	0.0	4.8	0.8
17	6.5	4.8	4.0	1.5	1.8	0.9	0.2	0.5	0.2	0.0	3.7	0.8
18	6.0	4.4	3.7	1.5	1.8	0.9	0.2	3.0	0.1	0.0	3.2	0.8
19	6.0	3.0	3.5	1.4	1.8	0.9	0.1	3.8	0.1	0.0	2.9	0.8
20	4.0	3.0	5.8	1.4	3.0	0.9	0.1	5.0	0.1	0.0	2.5	3.0
21	6.0	3.0	6.0	1.4	4.0	1.4	0.1	3.6	0.1	0.0	2.5	4.9
22	5.8	2.9	5.5	1.8	4.0	1.3	0.1	3.0	0.1	1.0	2.5	6.1
23	6.0	4.0	6.8	2.0	4.0	1.3	0.1	2.6	0.1	4.1	2.3	6.0
24	5.9	3.7	7.6	5.6	3.6	1.1	0.0	1.7	0.1	5.2	2.0	5.8
25	5.7	3.2	6.2	6.8	3.4	1.0	0.0	2.5	0.0	3.8	2.0	5.0
26	5.0	3.0	6.0	5.4	3.2	0.9	0.0	2.8	0.0	3.0	1.8	4.7
27	4.8	2.9	5.0	4.0	3.8	0.9	0.0	2.5	0.0	3.0	1.7	4.0
28	4.5	2.5	4.8	3.5	3.0	5.0	1.0	2.3	0.0	3.0	1.5	3.2
29	4.2	-----	4.8	3.0	2.8	3.4	1.0	2.0	0.0	2.8	1.4	3.0
30	4.0	-----	5.0	2.5	2.4	3.0	1.0	1.9	0.0	2.5	1.3	2.4
31	2.9	-----	5.8	-----	2.0	-----	0.9	1.5	-----	2.1	-----	2.0

1899.

1	3.8	1.0	3.7	3.0	1.6	2.5	0.4	0.3	0.0	0.8	0.0	0.6
2	3.0	1.0	3.2	3.0	1.6	2.0	0.4	0.2	0.3	0.8	1.8	0.6
3	2.7	1.0	3.0	3.0	1.7	1.6	0.4	0.2	0.2	1.0	1.8	1.5
4	2.5	1.0	5.0	2.2	2.0	1.4	0.4	0.2	0.2	0.7	1.6	1.7
5	6.0	0.9	6.2	2.0	2.3	1.3	0.4	0.1	0.1	0.6	1.6	1.7
6	6.3	0.9	6.5	2.0	2.0	1.2	0.4	0.1	0.1	0.5	1.4	1.5
7	5.7	0.9	6.0	2.0	1.5	1.2	0.4	0.1	0.0	0.5	1.2	1.3
8	5.0	0.9	5.0	4.0	1.4	1.1	0.4	0.1	0.0	0.4	1.0	1.1
9	4.2	0.9	4.0	4.7	1.4	1.0	0.3	0.1	0.0	0.4	0.9	1.0
10	4.0	0.8	3.4	4.5	1.4	1.0	0.3	0.1	0.0	0.4	0.9	1.0
11	3.2	0.8	2.7	4.0	1.3	1.0	0.3	0.1	0.0	0.3	0.9	1.0
12	3.0	0.8	2.3	4.2	1.3	1.0	0.3	0.1	0.0	0.3	0.8	4.0
13	3.0	0.8	2.3	4.2	1.3	0.9	0.7	0.0	0.0	0.3	0.8	6.0
14	3.4	0.8	3.2	5.0	1.3	0.9	0.7	0.0	0.0	0.2	0.7	5.0
15	5.7	0.8	3.0	5.0	1.3	0.9	0.7	0.0	0.0	0.2	1.7	4.7
16	5.6	0.8	3.0	4.7	1.2	0.9	0.7	0.0	0.0	0.2	2.1	4.3
17	5.0	0.8	2.7	4.0	1.2	0.8	1.0	0.0	0.0	0.2	2.3	3.5
18	4.8	0.8	3.1	3.6	2.9	0.8	1.0	0.0	0.0	0.2	2.3	2.8
19	4.0	0.8	4.2	3.3	2.4	0.8	1.0	0.0	0.0	0.2	1.8	2.6
20	3.2	1.5	4.7	3.0	2.3	0.7	0.9	0.0	0.0	0.2	1.7	7.2
21	2.9	2.0	4.0	2.5	2.2	0.7	0.8	0.0	0.0	0.1	1.3	6.1
22	2.7	4.0	3.2	2.0	2.0	0.7	0.8	0.0	0.0	0.1	1.2	5.3
23	2.3	4.0	3.0	2.0	2.0	0.6	0.7	0.0	0.0	0.1	1.0	4.2
24	2.0	4.1	3.0	2.0	1.8	0.5	0.6	0.0	0.0	0.1	1.0	3.6
25	2.0	3.5	3.9	1.9	1.7	0.4	0.5	0.0	0.0	0.1	0.9	3.0
26	1.9	2.7	3.0	1.9	1.5	0.4	0.5	0.0	0.0	0.1	0.9	2.8
27	1.8	3.2	2.9	1.8	1.5	0.4	0.5	0.0	0.0	0.0	0.8	2.6
28	1.5	4.0	2.9	1.8	1.4	0.4	0.5	0.0	0.0	0.0	0.7	2.2
29	1.4	-----	3.0	1.7	1.4	0.4	0.5	0.0	0.0	0.0	0.7	2.1
30	1.3	-----	4.0	1.6	2.5	0.4	0.5	0.0	0.0	0.0	0.6	2.0
31	1.2	-----	4.0	-----	2.5	-----	0.5	0.0	-----	0.0	-----	2.0

* 6.5 at 5 p. m.

DAILY RIVER STAGES.

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Ohio River system—Allegheny River, Oil City, Pa.
1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.9	2.9	4.5	11.0	2.5	3.1	1.7	4.2	0.5	4.4	1.5	3.2
2	4.6	4.3	4.3	10.4	2.3	2.8	1.5	3.5	0.5	5.0	1.4	3.0
3	3.7	5.7	3.7	10.0	2.1	2.3	1.3	3.2	0.4	4.0	1.3	2.9
4	3.5	5.2	3.5	9.0	2.2	2.0	1.2	3.1	0.4	3.4	1.3	2.7
5	3.3	4.8	3.3	7.5	2.2	1.8	1.2	2.8	0.4	2.9	1.2	2.6
6	3.1	4.0	3.0	6.2	2.1	1.6	2.4	2.4	0.4	2.6	1.3	2.5
7	2.9	4.4	3.0	5.2	2.1	1.4	1.8	2.0	0.4	2.5	1.2	2.5
8	2.8	4.6	4.1	4.8	2.1	1.2	1.7	1.8	0.6	2.2	1.2	2.5
9	2.8	3.9	4.5	4.0	2.0	1.7	1.5	1.6	0.5	2.4	1.2	3.7
10	2.8	3.7	4.3	4.0	2.0	³ 3.5	1.4	1.4	0.5	2.4	1.3	5.4
11	2.7	3.7	3.9	4.0	1.9	3.6	1.4	2.8	0.5	2.4	1.2	5.2
12	2.7	3.5	3.8	4.2	1.9	2.9	1.3	2.5	0.4	2.3	2.0	4.2
13	2.6	3.3	3.5	4.5	1.8	2.2	1.3	2.0	0.4	2.1	3.1	3.8
14	2.6	4.2	3.3	5.8	1.7	2.1	1.2	1.8	0.4	3.7	2.9	3.5
15	2.5	4.0	2.9	6.0	1.5	1.9	1.2	1.8	0.4	5.4	2.5	3.4
16	2.4	3.8	2.8	5.5	1.3	1.6	1.1	1.7	0.4	4.8	2.2	3.2
17	2.4	3.6	2.8	4.9	1.3	1.4	1.1	1.5	0.3	4.4	2.1	3.0
18	2.2	3.4	2.8	4.9	1.2	1.3	1.1	1.3	0.3	3.9	2.3	2.8
19	2.1	3.3	2.5	4.5	1.2	2.0	1.1	1.1	0.3	3.4	2.1	2.6
20	2.4	3.1	3.0	4.0	1.2	2.0	1.0	1.0	1.2	3.0	2.1	2.5
21	2.3	3.0	2.7	3.7	1.1	2.0	1.0	1.0	1.7	2.8	2.0	2.4
22	2.3	3.0	2.6	3.7	1.1	1.9	1.6	0.9	1.6	2.5	2.0	2.3
23	2.1	2.8	2.6	3.4	1.0	1.8	1.8	0.9	1.4	2.3	3.1	2.2
24	2.2	2.7	2.6	3.0	1.0	1.7	1.6	0.8	1.3	2.2	3.2	2.2
25	¹ 3.4	2.5	2.6	2.8	1.0	3.5	2.4	0.8	1.2	2.2	3.0	2.1
26	5.0	2.2	2.7	3.0	0.9	2.9	2.1	0.8	1.1	2.1	3.3	2.0
27	4.5	2.2	5.3	3.0	2.6	2.0	2.0	0.7	1.1	2.0	3.4	1.8
28	3.6	2.2	6.5	2.9	3.2	1.9	4.0	0.7	1.1	1.9	3.4	1.8
29	3.4	2.3	6.2	2.8	2.4	1.8	5.1	0.6	1.1	1.7	3.9	1.8
30	3.2	-----	11.0	2.7	1.9	1.8	4.9	0.6	1.9	1.6	3.6	1.5
31	3.0	-----	11.4	-----	1.7	-----	5.2	0.6	-----	1.5	-----	1.6

1897.

1	1.8	1.8	2.7	3.5	2.7	1.5	0.6	2.5	0.7	0.3	0.0	3.2
2	2.1	1.8	2.6	3.2	2.7	1.4	0.6	2.1	0.6	0.3	0.4	2.6
3	3.2	1.8	2.6	3.2	3.4	1.2	0.6	2.0	0.6	0.3	0.5	2.3
4	2.7	1.9	5.0	3.0	3.5	1.2	0.5	1.8	0.6	0.2	0.4	2.2
5	2.8	1.9	5.4	2.7	3.3	1.1	0.5	1.5	0.6	0.2	0.3	2.2
6	3.8	1.9	8.3	2.7	3.8	1.1	0.5	1.4	0.6	0.2	0.3	3.7
7	3.5	2.8	8.5	3.0	3.6	1.1	0.4	1.3	0.5	0.2	0.4	3.8
8	3.0	⁵ 5.6	7.3	3.1	3.3	1.5	1.3	1.2	0.5	0.1	0.4	2.9
9	2.8	4.8	6.4	3.2	3.1	2.2	1.6	1.1	0.5	0.1	0.4	2.6
10	2.6	3.7	7.8	4.5	2.9	2.1	1.2	1.0	0.5	0.1	0.5	2.5
11	2.5	3.7	10.4	4.4	4.3	1.9	1.0	1.0	0.4	0.1	0.6	3.2
12	2.4	3.6	8.3	4.1	4.0	1.8	0.9	2.2	0.4	0.1	0.8	3.5
13	2.4	3.5	8.0	4.0	4.9	1.6	1.3	1.9	0.4	0.1	1.0	3.5
14	2.3	3.4	7.6	4.4	5.7	1.5	1.8	1.7	0.3	0.1	0.8	3.2
15	2.1	3.2	6.9	5.2	4.9	1.2	1.4	1.5	0.3	0.1	0.8	5.0
16	2.0	2.9	6.0	4.8	4.1	1.1	1.1	2.1	0.3	0.1	1.3	7.0
17	2.0	2.8	5.1	4.4	3.6	1.2	1.0	3.6	0.3	0.0	2.6	6.5
18	2.0	2.5	4.5	4.1	3.0	1.0	0.9	3.5	0.3	0.0	2.6	5.3
19	2.4	2.5	3.9	3.8	3.0	1.0	1.2	2.9	0.3	0.0	2.4	5.3
20	2.6	2.7	4.4	3.7	2.8	1.0	2.7	2.5	0.3	0.0	2.1	4.7
21	2.3	2.9	6.0	3.4	2.6	0.9	2.3	2.0	0.3	0.0	1.9	4.0
22	2.2	3.0	5.6	3.2	2.6	0.8	2.0	1.7	0.3	0.0	1.6	3.8
23	2.2	3.6	5.4	3.0	2.4	0.8	2.2	1.2	0.2	0.0	1.3	3.5
24	2.1	4.8	5.2	2.8	2.4	0.8	2.4	1.2	0.2	0.0	1.3	3.3
25	2.0	3.9	6.6	2.5	2.2	0.7	2.7	1.1	0.2	0.0	1.2	3.2
26	2.0	3.2	6.1	2.6	2.1	0.7	2.2	1.0	0.2	0.0	1.1	3.2
27	1.9	3.0	5.2	3.4	2.1	0.7	2.1	1.0	0.2	0.0	3.2	3.0
28	1.9	2.9	4.7	3.2	2.1	0.6	2.4	0.9	0.3	0.0	5.2	2.8
29	1.9	-----	4.5	3.1	2.0	0.6	2.4	0.8	0.3	0.0	4.2	2.7
30	1.8	-----	4.1	2.8	1.9	0.6	2.1	0.8	0.3	0.0	3.8	2.5
31	1.8	-----	3.8	-----	1.7	-----	2.1	0.7	-----	0.0	-----	2.3

¹3.0 during day.³3.7 at 4 p. m.⁵7.4 at 3 p. m.

Ohio River system—Allegheny River, Oil City, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.3	3.3	2.8	5.7	3.1	2.5	3.0	0.8	2.0	0.5	2.7	2.0
2	2.3	3.1	2.5	5.0	2.8	2.2	2.2	0.8	1.8	0.5	2.6	1.9
3	2.3	2.8	2.5	4.6	2.5	2.0	1.9	0.8	1.5	0.5	2.5	1.8
4	2.1	2.4	2.2	4.2	2.5	1.9	1.7	1.0	1.3	0.4	2.3	1.7
5	2.2	2.3	2.2	3.8	2.3	1.8	1.5	1.2	1.1	0.4	2.3	1.7
6	2.4	2.3	2.2	3.5	2.3	1.8	1.4	3.1	1.0	0.4	2.6	1.7
7	2.4	2.6	2.2	3.2	2.6	1.5	1.3	2.6	1.0	1.6	5.6	1.6
8	2.5	2.3	2.2	3.1	2.9	1.3	1.2	1.7	1.5	1.5	5.0	1.6
9	2.4	2.3	2.2	3.0	2.6	1.2	1.1	1.5	1.3	1.1	4.3	1.6
10	2.3	3.2	3.0	2.8	2.3	1.2	1.0	1.3	1.1	0.9	4.0	1.5
11	2.0	3.5	3.8	2.6	2.2	1.2	0.9	1.3	1.0	0.9	8.1	1.5
12	2.0	7.3	4.2	2.5	2.4	1.2	0.9	1.2	1.0	0.8	8.5	1.5
13	5.9	10.2	5.1	2.4	3.4	1.5	0.8	1.1	0.9	0.8	6.8	2.4
14	10.0	9.0	5.8	2.2	3.4	2.0	0.7	1.1	0.8	0.8	5.8	2.5
15	8.1	7.4	5.4	2.1	3.3	2.3	0.6	1.5	0.8	0.9	4.8	2.7
16	7.0	5.7	4.8	2.1	3.1	1.8	0.6	1.4	0.8	1.5	4.0	2.5
17	6.7	5.1	4.0	2.0	2.8	1.5	0.6	1.3	0.7	2.2	3.7	2.4
18	6.1	4.0	3.9	2.0	2.8	1.4	0.5	3.2	0.7	1.8	3.6	2.3
19	5.3	3.8	4.1	1.9	2.6	1.6	0.5	5.5	0.7	1.3	3.3	2.2
20	4.4	3.8	7.0	1.8	4.8	1.9	0.5	5.6	0.6	1.4	3.1	3.1
21	6.0	4.5	7.0	2.0	5.5	2.0	0.5	4.3	0.6	1.5	2.9	3.2
22	6.8	5.3	6.5	2.4	4.8	2.0	0.5	3.6	0.5	2.2	2.8	5.8
23	6.7	4.8	9.2	2.5	4.0	2.0	0.5	3.3	0.5	3.4	2.8	7.0
24	8.0	4.1	10.2	4.0	3.6	2.0	0.5	2.9	0.5	5.5	2.7	6.6
25	6.8	3.8	8.5	6.8	3.5	1.9	0.5	2.4	0.5	5.0	2.5	5.9
26	5.7	3.5	7.0	6.3	4.2	1.8	0.5	3.6	0.8	4.6	2.5	5.0
27	5.3	3.2	6.0	5.0	3.7	1.7	0.7	3.2	0.7	3.5	2.4	4.1
28	5.0	3.2	5.4	4.1	3.3	1.6	0.7	2.7	0.7	3.0	2.3	3.8
29	4.7	-----	4.5	3.7	3.2	1.5	1.0	2.3	0.6	3.0	2.2	3.4
30	4.0	-----	7.0	3.4	3.0	3.8	0.9	2.2	0.6	2.9	2.0	2.9
31	3.7	-----	6.4	-----	2.8	-----	0.8	2.1	-----	2.8	-----	2.6

1899.

1	4.0	1.9	3.9	3.8	1.9	2.9	0.8	0.8	-0.1	1.2	1.4	1.2
2	3.7	1.8	3.8	3.5	1.9	2.8	0.8	0.7	0.1	1.4	2.8	1.2
3	3.3	1.7	3.3	3.2	3.4	2.5	0.7	0.6	1.4	1.3	2.9	1.9
4	2.8	1.7	3.0	2.9	3.0	2.2	0.7	0.5	1.1	0.9	2.5	3.0
5	4.0	1.7	6.2	2.7	2.9	1.9	0.6	0.5	0.6	0.8	2.4	3.0
6	7.2	1.7	7.2	2.7	2.8	1.7	0.6	0.4	0.6	0.7	2.3	2.8
7	6.3	1.6	5.9	3.0	2.5	1.6	0.5	0.4	0.4	0.6	2.2	2.5
8	5.4	1.5	5.1	4.6	2.3	1.7	0.5	0.4	0.3	0.6	2.2	2.3
9	4.8	1.5	4.2	5.9	2.0	1.5	0.7	0.3	0.2	0.6	2.0	2.1
10	4.2	1.4	3.3	5.2	1.8	1.4	0.8	0.3	0.2	0.5	1.7	2.1
11	4.0	1.4	3.0	4.4	1.8	1.3	0.7	0.2	0.2	0.5	1.5	2.3
12	3.7	1.4	2.7	4.0	1.7	1.3	0.7	0.4	0.3	0.5	1.4	4.7
13	3.0	1.3	2.5	5.1	1.8	1.2	0.7	0.7	0.2	0.4	1.8	7.4
14	3.1	1.3	3.2	5.2	1.8	1.1	1.1	0.4	0.2	0.4	1.6	6.5
15	6.2	1.3	3.0	4.8	1.7	1.0	1.2	0.3	0.1	0.4	2.1	5.3
16	6.4	1.3	3.0	4.4	1.6	1.5	1.5	0.3	0.1	0.3	3.3	4.4
17	5.5	1.5	3.3	4.1	2.1	1.3	2.1	0.2	0.1	0.3	3.4	3.8
18	4.9	1.5	3.2	3.8	4.4	1.3	2.3	0.1	0.0	0.3	3.2	3.6
19	4.2	1.5	4.8	3.4	4.4	1.2	2.2	0.1	0.0	0.3	2.9	3.3
20	3.5	1.5	5.6	3.0	3.6	1.1	1.9	0.1	0.0	0.2	2.6	8.2
21	3.0	1.5	4.9	2.9	3.0	1.0	1.7	0.0	0.0	0.2	2.2	7.5
22	2.8	2.5	4.0	2.7	2.6	0.9	1.5	0.0	0.0	0.2	2.0	6.4
23	2.5	6.2	4.0	2.5	2.5	0.9	1.3	0.0	0.0	0.2	2.0	5.0
24	2.5	5.0	4.9	2.4	2.5	0.8	1.2	0.0	0.0	0.2	1.8	4.4
25	2.5	3.9	4.4	2.2	2.3	0.7	0.9	0.0	0.0	0.2	1.7	3.8
26	2.4	3.4	4.0	2.0	2.2	0.7	2.2	0.0	0.0	0.2	1.6	3.5
27	2.3	3.0	3.8	2.0	2.1	0.7	2.2	0.0	0.4	0.1	1.5	3.2
28	2.3	4.2	3.5	1.9	2.4	0.7	1.7	0.0	1.2	0.1	1.4	3.0
29	2.2	-----	4.9	2.0	3.3	0.6	1.2	-0.1	0.8	0.1	1.3	2.8
30	2.2	-----	5.2	1.9	3.7	0.9	0.9	-0.1	0.7	0.3	1.3	2.6
31	2.0	-----	4.7	-----	3.6	-----	0.8	-0.1	-----	1.0	-----	2.5

¹5.0 at 2 p. m.²2.5 at 8 p. m.

DAILY RIVER STAGES.

298

Ohio River system—Allegheny River, Parker, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.5	3.5	5.2	12.0	2.8	1.5	1.7	5.2	0.2	4.4	0.8	4.0
2	5.7	5.1	5.6	11.5	2.7	2.5	1.5	4.2	0.2	6.1	0.8	3.9
3	4.6	7.0	5.1	10.0	3.3	2.2	1.2	3.9	0.1	5.2	0.8	2.8
4	4.0	7.7	5.4	9.0	3.5	1.6	1.0	3.0	0.1	3.1	0.7	2.5
5	2.8	7.0	9.5	7.8	3.3	1.3	1.1	2.7	0.1	3.0	0.9	2.4
6	1.9	6.1	10.5	6.8	2.8	1.1	1.4	2.0	0.3	2.8	1.0	2.4
7	1.8	7.1	11.0	6.3	2.5	1.1	2.0	1.8	0.6	2.4	1.3	2.2
8	2.5	6.8	10.9	5.7	2.3	1.1	1.8	1.5	0.8	2.2	1.2	2.0
9	2.4	6.6	12.2	5.0	2.0	1.4	1.5	1.2	0.7	3.0	1.6	3.5
10	2.4	5.3	10.4	4.7	1.8	3.0	1.4	1.0	0.4	3.0	1.5	6.5
11	2.4	4.5	7.1	5.0	1.6	3.7	1.3	2.5	0.3	2.5	1.5	6.7
12	2.3	3.9	6.5	6.0	1.5	3.0	1.1	3.0	0.2	2.0	1.9	5.2
13	2.3	3.9	11.5	6.3	1.4	2.4	1.0	2.5	0.1	2.0	3.1	4.5
14	2.3	5.3	11.7	7.0	1.3	1.9	0.9	2.6	0.1	3.0	3.1	4.0
15	2.2	5.3	11.7	6.8	1.3	1.5	0.8	2.2	0.2	6.2	2.6	8.5
16	2.1	5.6	11.5	6.4	1.1	1.2	0.7	1.9	0.2	5.9	2.4	3.0
17	1.8	4.8	11.5	5.8	1.1	1.1	0.7	1.5	0.2	5.1	2.4	2.7
18	1.6	4.0	11.2	5.3	1.1	1.1	0.7	1.1	0.1	5.0	2.4	2.5
19	1.6	3.5	11.2	4.8	1.0	1.8	0.6	0.9	0.2	3.4	2.5	2.2
20	1.5	3.0	11.2	4.3	1.0	1.7	0.6	0.8	0.5	3.0	2.4	2.0
21	1.5	2.4	11.0	4.4	0.9	1.5	0.5	0.7	2.2	3.0	2.1	2.0
22	1.5	2.0	11.0	4.5	0.9	1.7	1.2	0.6	2.1	2.9	2.1	1.8
23	1.5	1.8	11.0	4.0	0.8	1.6	2.0	0.6	1.6	2.4	2.7	1.6
24	1.8	1.8	10.9	3.5	0.7	1.5	2.0	0.8	1.2	2.5	3.5	1.4
25	4.5	1.6	10.7	3.4	0.6	4.4	2.3	0.6	1.0	2.4	3.1	1.3
26	6.6	1.4	10.8	3.7	0.6	4.4	2.6	0.6	0.8	1.9	3.0	1.3
27	6.4	1.4	11.7	3.6	0.6	3.4	2.3	0.4	0.7	1.7	3.5	1.2
28	6.2	1.4	7.4	3.2	2.2	3.1	3.1	0.4	0.6	1.6	3.5	1.2
29	4.6	4.8	8.7	3.2	2.4	2.4	5.2	0.3	0.6	1.2	3.6	1.2
30	4.0	-----	12.0	3.0	1.8	2.0	5.5	0.3	2.0	0.9	4.7	1.3
31	3.5	-----	13.0	-----	1.5	-----	6.3	0.3	-----	0.8	-----	1.4

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.4	2.0	3.8	3.8	2.6	1.3	0.8	2.3	1.2	0.2	-0.4	3.4
2	2.5	1.9	3.5	3.6	3.0	1.2	0.8	2.6	1.3	0.2	-0.2	2.8
3	2.8	1.8	3.7	3.3	3.7	1.2	0.8	2.0	1.0	0.2	0.0	2.4
4	2.7	1.8	7.3	2.8	4.0	1.0	0.7	1.8	1.0	0.0	0.2	2.2
5	3.0	1.8	8.0	2.6	3.7	1.0	0.7	1.8	1.0	0.0	0.3	2.1
6	3.6	1.9	12.4	2.5	4.0	0.9	0.7	1.4	0.9	0.0	0.5	3.1
7	3.8	2.0	12.7	2.5	4.0	0.9	0.7	1.2	0.8	0.0	0.5	3.9
8	4.0	6.0	11.0	2.8	3.5	1.8	0.6	1.0	0.8	0.0	0.5	3.4
9	3.8	8.1	10.5	3.2	3.4	2.6	1.2	1.0	0.8	0.0	0.7	2.9
10	2.6	5.5	11.6	6.0	3.4	2.6	1.0	1.0	0.6	0.0	0.7	2.9
11	2.4	5.0	12.0	5.8	4.5	2.0	1.0	1.0	0.5	0.0	0.8	3.3
12	2.4	4.2	11.1	5.3	4.7	1.9	1.0	2.2	0.5	0.0	0.9	3.9
13	2.3	4.0	9.5	4.9	6.4	1.8	0.9	2.0	0.4	0.0	1.0	4.3
14	2.3	4.0	9.0	4.9	6.6	1.8	2.1	1.9	0.4	0.0	1.1	3.9
15	2.0	3.8	7.8	5.6	5.8	1.6	1.6	1.5	0.4	-0.1	1.2	6.0
16	1.9	3.5	7.5	5.6	4.9	1.1	1.3	1.4	0.3	-0.1	1.4	8.0
17	1.9	3.5	7.0	5.4	4.1	1.0	1.0	4.2	0.3	-0.1	2.8	7.7
18	2.0	3.4	7.0	5.4	2.6	1.2	1.0	5.0	0.3	-0.2	3.7	6.9
19	2.0	3.4	6.9	5.3	2.0	1.2	3.3	4.3	0.3	-0.2	3.0	6.3
20	2.1	3.4	6.9	5.0	1.9	1.0	4.3	3.0	0.4	-0.2	2.4	5.4
21	2.6	3.0	7.1	3.4	1.9	1.0	4.4	2.8	0.4	-0.2	2.0	4.8
22	2.7	3.0	7.5	3.0	1.8	1.0	3.7	2.0	0.4	-0.2	1.6	4.1
23	2.6	3.9	7.5	3.0	2.4	0.9	4.5	1.2	0.2	-0.2	1.3	3.5
24	2.5	5.0	7.0	2.6	2.4	0.9	3.5	1.0	0.2	-0.2	1.2	3.0
25	2.5	4.5	6.8	2.6	2.2	0.8	3.3	1.0	0.2	-0.2	1.1	2.6
26	2.4	4.0	7.1	2.7	2.0	0.8	3.0	1.0	0.2	-0.3	1.1	2.4
27	2.4	4.0	7.1	3.2	1.9	0.9	2.6	0.9	0.2	-0.3	3.9	2.0
28	2.3	3.8	6.8	3.3	1.7	0.9	3.2	0.9	0.2	-0.3	6.5	2.0
29	2.3	-----	6.5	3.0	1.6	0.8	3.3	0.9	0.2	-0.3	5.7	1.9
30	2.1	-----	4.5	2.7	1.4	0.8	3.0	0.8	0.2	-0.4	4.4	1.8
31	2.0	-----	4.0	-----	1.3	-----	2.5	0.8	-----	-0.4	-----	1.7

DAILY RIVER STAGES.

Ohio River system—Allegheny River, Parker, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.7	3.4	3.0	6.0	2.8	2.2	2.5	0.9	1.4	0.9	2.5	1.7
2	2.5	3.0	2.8	5.4	2.6	1.9	1.9	0.8	1.3	0.8	2.4	1.7
3	Frozen.	3.0	2.6	4.6	2.4	1.7	1.6	0.8	1.3	0.7	2.2	1.5
4		2.8	2.5	4.2	2.4	1.6	1.4	0.9	1.2	0.6	2.0	1.5
5		2.6	2.4	3.7	2.3	1.3	1.3	1.4	1.2	0.6	1.7	1.5
6		2.5	2.3	3.3	2.2	1.2	1.2	2.2	1.1	0.7	3.3	1.9
7		2.5	2.2	3.0	2.5	1.1	1.2	2.3	1.1	0.8	5.8	1.7
8		2.5	2.3	2.7	2.7	1.0	1.1	1.6	1.1	1.4	5.9	1.5
9		2.6	2.6	2.5	2.5	1.0	1.1	1.4	1.2	1.2	5.0	1.4
10		2.8	3.1	2.3	2.1	1.2	1.0	1.0	1.3	1.1	4.8	1.4
11		3.0	3.8	2.3	2.0	1.1	0.9	0.9	1.2	1.0	9.5	1.4
12		7.0	4.5	2.2	2.2	1.0	0.8	0.9	1.2	1.0	10.0	1.3
13	7.1	13.0	5.8	2.0	3.6	1.6	0.8	1.2	1.2	0.9	8.2	1.5
14	11.0	10.2	6.6	1.7	4.0	2.3	0.7	1.2	1.1	0.9	6.7	1.5
15	8.8	8.5	6.4	1.8	3.5	1.8	0.6	1.3	1.1	1.0	5.6	1.5
16	8.4	6.8	5.6	1.8	2.9	1.6	0.6	1.3	1.1	1.2	5.0	1.5
17	8.3	5.4	5.0	1.6	2.6	1.4	0.6	1.2	1.1	1.2	4.4	1.6
18	6.9	4.3	4.7	1.5	2.6	1.2	0.6	1.3	1.1	1.5	3.8	1.8
19	4.6	4.2	4.0	1.5	2.6	4.0	0.5	7.0	1.1	1.4	3.3	1.9
20	4.9	4.6	10.0	1.5	4.8	2.5	0.5	6.8	1.1	1.3	3.1	2.0
21	7.0	6.0	9.7	1.6	6.2	1.9	0.6	5.8	1.1	1.5	3.0	4.5
22	8.2	6.6	8.7	1.8	6.1	1.8	0.5	4.5	1.1	2.0	3.0	7.3
23	8.7	6.3	13.5	2.4	5.2	1.7	0.4	3.2	1.1	4.0	2.8	8.7
24	10.0	5.4	14.0	3.2	4.6	1.6	0.3	2.5	1.1	6.0	2.6	8.8
25	8.2	4.5	10.0	7.7	4.3	1.4	0.3	2.2	1.2	6.2	2.6	8.0
26	7.4	4.0	8.2	7.4	4.5	1.3	0.4	3.0	1.1	5.0	2.4	6.0
27	6.8	3.5	7.1	5.7	4.0	1.2	0.6	3.6	1.3	3.9	2.3	5.0
28	5.8	3.3	5.8	4.5	3.4	1.2	0.6	3.0	1.2	3.7	2.2	4.5
29	4.8		5.7	3.6	3.2	4.5	0.8	2.5	1.1	3.6	2.1	4.0
30	4.0		7.7	3.2	2.8	3.8	0.9	2.0	1.0	3.4	2.0	4.0
31	3.6		7.3		2.5		1.0	1.7		2.8		3.7

1899.

1	3.5	1.5	5.5	5.6	2.0	4.4	1.7	1.1	0.0	1.0	1.7	1.1
2	3.3	1.4	5.0	4.2	2.0	3.6	1.5	1.0	1.3	1.0	2.1	1.1
3	3.2	1.4	4.6	4.2	3.0	3.3	1.3	0.9	1.0	1.0	2.8	1.3
4	4.5	1.4	4.3	3.7	3.7	2.5	1.3	0.9	0.9	1.1	2.5	2.2
5	6.8	1.4	7.4	3.5	3.1	2.1	1.2	1.1	0.8	1.1	2.3	2.5
6	8.0	1.4	8.8	3.7	2.7	1.9	1.2	1.3	0.9	1.0	2.2	2.4
7	7.5	1.3	7.4	3.9	2.4	2.3	1.5	1.2	0.9	0.8	2.0	2.2
8	6.3	1.3	6.3	5.0	2.2	2.2	1.0	1.0	0.8	0.7	1.9	2.0
9	5.4	1.2	5.0	7.1	1.9	2.1	1.1	0.9	0.8	0.7	1.6	1.9
10	4.5	Frozen.	4.2	6.6	1.7	1.8	1.2	0.8	0.7	0.8	1.5	2.2
11	3.8		3.7	5.7	1.6	1.5	1.0	0.8	0.7	0.8	1.2	2.2
12	3.2		3.4	5.0	1.5	1.3	1.0	1.3	0.8	0.7	1.2	4.2
13	2.8		3.7	5.5	1.4	1.2	1.0	1.4	0.8	0.6	1.6	8.9
14	3.0		4.0	6.2	1.4	1.1	1.0	1.2	0.6	0.5	1.6	7.8
15	7.6		3.8	5.8	1.3	1.0	1.0	0.9	0.5	0.5	1.8	7.0
16	8.5		3.5	5.2	1.3	1.7	1.3	0.7	0.5	0.4	2.8	5.6
17	7.5		4.2	4.7	1.5	2.1	1.4	0.6	0.5	0.3	3.2	4.5
18	6.2		4.0	4.2	5.8	1.6	3.0	0.3	0.4	0.2	3.1	3.7
19	5.2		5.0	3.8	6.5	1.4	2.1	0.1	6.3	0.2	2.8	3.4
20	4.3		7.2	3.4	5.0	1.2	1.9	0.0	0.4	0.2	2.4	9.5
21	3.7		6.4	3.0	4.2	1.2	1.7	0.2	0.5	0.2	2.0	9.3
22	3.3	2.0	5.2	2.8	3.5	1.1	1.4	0.2	0.5	0.2	1.9	7.7
23	3.0	5.0	4.5	2.6	2.8	1.0	1.4	0.1	0.6	0.2	1.8	6.0
24	2.7	5.4	6.3	2.5	2.4	1.0	1.3	0.1	0.6	0.1	1.5	5.0
25	2.6	4.5	5.8	2.3	2.2	1.2	1.2	0.1	0.6	0.1	1.4	4.5
26	2.3	3.6	5.2	2.4	2.0	1.3	2.2	0.1	0.6	0.1	1.3	4.0
27	2.0	4.0	4.8	2.6	1.9	1.5	2.2	1.3	0.7	0.1	1.3	3.5
28	2.0	5.6	4.6	2.3	1.8	1.5	1.8	1.3	0.8	0.1	1.2	3.1
29	1.9		7.2	2.4	2.7	1.6	1.5	0.1	1.0	0.1	1.2	2.8
30	1.7		7.3	2.3	5.8	1.7	1.3	0.0	1.2	0.3	1.1	Frozen.
31	1.6		6.3		5.2		1.2	0.1		0.3		

18.8 during day.

DAILY RIVER STAGES.

295

Ohio River system—Allegheny River, Freeport, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.5	5.5	7.2	19.0	4.9	2.6	3.5	9.1	1.3	10.3	3.0	7.4
2	8.9	7.3	8.9	17.5	4.6	3.0	3.0	7.6	1.1	9.8	2.9	6.5
3	7.6	10.5	8.0	16.3	5.5	3.7	2.7	8.1	1.0	8.9	2.8	5.5
4	6.9	12.3	6.5	14.2	6.2	3.0	2.4	6.4	1.0	7.2	2.6	4.7
5	5.0	11.7	5.2	12.1	5.6	2.6	2.5	4.0	0.9	6.1	2.7	4.0
6	3.8	10.4	5.0	10.5	5.0	2.3	3.1	3.0	1.1	5.2	5.5	4.4
7	4.0	12.1	5.1	9.6	4.5	2.1	4.4	2.5	1.5	4.5	5.2	4.4
8	3.8	12.0	5.9	8.9	4.0	2.7	4.0	3.0	1.7	4.1	4.6	4.2
9	4.3	10.0	7.7	8.0	3.7	2.9	3.4	3.0	1.8	4.1	4.0	5.0
10	4.3	9.5	8.0	7.4	3.3	3.7	3.3	3.1	2.0	4.8	3.8	9.9
11	4.2	7.7	7.5	7.4	3.1	5.3	3.0	3.9	1.4	4.3	3.5	10.4
12	4.4	6.7	6.9	9.4	3.0	5.4	2.8	5.8	1.3	3.7	4.7	9.0
13	4.4	6.0	5.6	10.5	3.0	4.3	2.4	5.2	1.2	3.4	5.4	8.0
14	4.0	9.0	5.3	10.4	2.8	3.4	2.6	5.5	1.1	4.0	6.0	6.9
15	3.7	10.2	4.7	10.4	2.8	3.0	3.8	5.0	1.0	8.3	5.4	6.3
16	3.3	9.8	4.4	9.8	2.7	2.7	8.8	3.9	1.4	9.2	4.9	5.8
17	3.1	8.6	4.2	9.0	2.4	2.7	6.0	3.3	1.2	8.0	4.6	4.0
18	2.8	7.3	4.1	8.2	2.4	2.3	3.9	2.8	1.2	7.2	4.7	4.4
19	2.6	7.0	4.5	7.0	2.3	2.7	3.2	2.5	1.1	6.4	4.7	4.3
20	3.0	6.1	5.7	6.9	2.2	3.0	2.7	2.2	1.4	6.0	4.5	4.1
21	3.5	5.5	5.5	6.9	2.2	2.9	2.9	2.0	2.6	5.3	4.0	3.7
22	3.5	5.0	5.2	7.7	2.1	3.1	3.3	1.9	3.8	5.9	4.0	3.7
23	3.6	4.3	7.1	7.0	2.0	3.0	3.4	1.9	3.2	5.1	5.0	3.4
24	4.0	4.3	6.2	6.1	2.0	3.0	3.9	1.9	2.8	5.1	6.0	3.0
25	8.0	4.0	6.0	6.0	1.8	5.3	6.5	2.0	2.3	5.3	6.0	2.7
26	10.6	4.0	7.1	6.1	1.7	9.5	6.5	1.9	2.0	4.6	5.7	2.3
27	9.6	4.3	12.4	6.0	1.7	7.6	5.4	1.8	1.8	4.1	6.0	2.3
28	8.4	4.2	12.5	5.5	1.7	5.3	6.0	1.6	1.7	3.7	6.6	2.3
29	7.3	5.0	13.5	5.2	3.8	4.6	8.6	1.5	1.6	3.5	7.8	2.7
30	7.0	-----	19.1	5.2	3.3	3.9	8.0	1.4	3.2	3.2	8.4	3.0
31	6.0	-----	20.2	-----	2.8	-----	9.5	1.3	-----	3.1	-----	3.4

1897.

1	3.9	5.2	6.0	6.9	4.5	2.7	1.4	4.3	1.6	1.0	0.4	6.8
2	4.6	5.3	5.9	6.5	5.3	2.5	1.5	4.9	1.5	0.9	0.6	5.7
3	5.4	5.3	6.0	5.8	8.3	2.4	1.7	4.3	1.6	0.8	0.7	4.9
4	5.5	5.4	10.1	5.3	8.3	2.3	1.6	3.5	1.5	0.7	1.1	4.3
5	5.6	5.8	11.8	5.0	7.2	2.3	1.5	3.0	1.5	0.6	1.3	4.3
6	6.2	5.5	19.5	5.0	7.0	2.3	1.4	3.2	1.6	0.6	1.4	6.9
7	7.0	9.0	19.1	5.0	7.0	2.2	1.3	2.9	1.4	0.6	1.3	7.5
8	6.0	9.5	14.5	5.2	6.6	2.2	1.2	2.6	1.2	0.5	1.3	6.8
9	6.4	8.0	13.2	6.7	6.0	4.0	2.3	2.3	1.1	0.5	1.4	5.9
10	5.1	9.3	13.3	12.8	5.4	4.4	2.4	2.2	1.0	0.5	2.2	5.5
11	5.0	7.4	17.0	11.4	5.3	4.1	1.9	2.9	1.0	0.5	2.5	5.7
12	4.7	7.0	16.0	9.8	5.2	3.5	1.8	3.4	0.9	0.5	2.3	6.5
13	4.1	6.9	14.0	9.0	8.5	3.1	1.8	4.0	0.9	0.5	2.5	7.1
14	3.3	6.3	13.0	8.7	11.0	3.1	2.3	3.4	0.8	0.5	2.5	7.1
15	2.9	6.0	11.8	9.0	10.0	2.8	3.5	2.9	0.7	0.5	2.9	8.3
16	3.2	6.7	10.6	11.4	8.7	2.5	2.8	2.6	0.7	0.5	4.6	13.1
17	3.5	6.5	9.1	10.1	7.5	2.4	2.2	2.5	0.8	0.5	6.6	12.5
18	3.9	6.6	8.0	8.8	6.7	2.8	1.9	7.7	0.7	0.5	7.4	11.2
19	5.1	7.5	7.9	8.0	5.7	3.1	2.0	7.0	0.8	0.4	6.4	11.0
20	5.4	7.1	10.3	7.1	5.3	2.7	5.9	5.7	0.9	0.4	5.4	9.5
21	4.7	6.9	11.6	6.4	4.9	2.5	7.5	4.3	0.9	0.4	4.5	8.8
22	4.8	8.2	11.8	5.9	4.7	2.3	7.0	3.6	0.8	0.4	3.9	8.2
23	4.4	14.6	11.5	5.4	4.4	2.0	8.0	3.1	0.8	0.4	3.3	7.5
24	4.5	14.7	11.0	5.0	4.4	1.9	7.3	2.7	0.8	0.4	3.0	6.5
25	4.3	11.0	10.1	4.5	4.3	1.8	6.9	2.9	1.0	0.4	2.7	5.7
26	4.0	8.9	12.6	4.6	4.0	2.1	5.8	2.8	2.1	0.4	2.6	4.5
27	3.9	7.8	11.1	5.1	3.8	1.9	5.4	2.5	1.7	0.4	3.8	5.3
28	4.6	6.8	10.0	5.7	3.5	1.7	6.0	2.3	1.5	0.4	9.8	5.3
29	4.4	-----	9.0	5.3	3.3	1.5	6.6	2.0	1.3	0.4	9.8	4.1
30	5.0	-----	8.0	4.9	3.0	1.4	6.0	1.8	1.1	0.4	8.0	3.9
31	5.0	-----	7.6	-----	2.8	-----	5.0	1.7	-----	0.4	-----	3.8

Ohio River system—Allegheny River, Freeport, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.7	7.5	6.0	11.1	5.2	4.4	5.0	1.8	2.9	1.0	4.8	3.7
2	3.7	7.3	5.7	9.7	4.8	4.0	3.8	1.7	2.5	1.0	4.4	3.5
3	3.5	6.8	5.3	8.5	4.6	3.6	3.0	1.5	2.2	0.9	4.1	3.3
4	3.5	6.0	4.9	7.7	4.5	3.3	2.5	1.6	2.0	0.8	3.8	3.2
5	4.5	5.0	4.6	6.0	4.4	3.0	2.2	2.2	1.9	0.8	3.5	3.9
6	4.5	4.3	4.6	5.5	4.1	2.8	2.0	3.0	1.7	0.8	3.3	4.6
7	6.5	3.8	4.5	5.1	4.1	2.5	1.9	4.3	1.7	0.8	6.3	4.4
8	7.0	4.0	4.5	4.8	7.3	2.3	1.7	3.7	1.7	1.9	8.5	4.0
9	7.7	4.8	4.8	4.5	6.3	2.2	1.6	3.6	1.7	2.5	8.2	3.0
10	8.0	5.3	5.0	4.4	5.3	2.2	1.4	3.3	1.9	2.2	7.1	2.0
11	10.0	6.6	6.0	4.4	4.6	2.1	1.2	3.1	2.0	1.9	13.0	1.7
12	10.0	12.1	7.5	4.3	4.4	2.2	1.1	3.3	1.8	1.8	15.4	3.5
13	14.6	16.1	8.2	4.3	4.8	2.6	1.0	2.7	1.7	1.8	12.9	3.9
14	18.0	15.5	9.3	4.1	6.4	5.1	1.0	2.3	1.4	1.5	11.0	4.0
15	15.9	14.3	10.0	3.8	6.3	5.3	0.9	2.2	1.2	1.6	9.5	3.8
16	15.0	12.0	9.5	3.9	5.7	4.3	0.9	2.1	1.1	1.7	8.7	3.5
17	14.0	11.0	8.3	4.3	9.4	3.4	0.9	2.4	1.0	1.9	7.6	3.4
18	12.0	9.0	7.5	4.0	7.2	3.0	0.8	2.2	1.0	2.5	6.7	4.0
19	10.0	7.6	7.0	3.6	6.4	3.9	0.8	5.1	1.0	2.7	6.0	5.0
20	9.0	8.0	10.6	3.5	6.5	6.4	0.9	13.2	1.0	4.2	5.6	6.3
21	11.0	9.7	15.9	3.5	10.5	4.3	1.5	10.1	0.9	3.3	5.5	8.3
22	12.9	11.4	16.1	3.5	10.1	3.8	1.4	8.0	0.9	4.6	5.4	13.0
23	13.6	10.8	25.2	3.9	9.1	3.4	1.1	6.3	0.9	8.9	5.2	13.5
24	16.8	9.7	25.3	4.8	9.2	3.1	1.0	5.0	1.0	8.5	4.9	15.0
25	14.0	8.5	18.9	9.5	8.5	2.8	0.9	4.3	1.1	10.0	4.7	12.8
26	13.1	7.7	14.3	11.1	8.0	2.5	1.0	4.2	1.1	8.8	4.4	10.5
27	12.8	7.0	11.9	9.9	7.3	2.4	1.0	5.5	1.4	7.2	4.0	8.4
28	10.7	6.5	10.2	8.0	6.9	2.2	1.3	5.2	1.6	6.6	3.8	7.8
29	9.0	-----	10.0	6.7	6.0	2.1	1.5	4.4	1.4	6.3	3.6	6.5
30	8.1	-----	14.1	5.9	5.6	6.3	1.7	3.8	1.2	5.7	3.5	5.9
31	7.8	-----	13.0	-----	5.0	-----	1.9	3.2	-----	5.2	-----	6.1

1899.

1	6.5	3.0	11.0	11.0	3.1	7.4	2.5	1.8	0.7	1.6	1.6	2.4
2	6.0	2.5	9.6	9.3	3.7	6.4	2.3	1.6	0.9	1.5	4.2	2.5
3	5.0	2.5	8.8	8.5	3.8	5.6	2.0	1.4	2.9	1.7	5.5	2.7
4	4.4	4.0	8.5	7.5	5.5	4.9	1.7	1.4	1.9	1.8	4.7	3.4
5	6.8	8.5	12.0	7.0	5.5	4.2	1.5	2.6	1.8	1.8	4.3	4.3
6	11.0	8.0	16.0	6.8	4.8	3.7	1.4	3.3	1.3	1.6	4.1	4.5
7	¹ 14.2	6.0	17.0	6.7	4.3	4.4	1.6	2.6	1.3	1.5	3.8	4.0
8	10.0	4.5	12.4	8.1	3.9	4.2	1.6	1.9	1.4	1.2	3.6	3.4
9	8.7	2.5	10.0	11.4	3.6	4.0	1.7	1.5	1.0	1.1	3.2	3.0
10	8.0	1.8	10.0	11.0	4.0	3.6	1.8	1.4	1.0	1.0	2.9	3.8
11	7.0	1.5	8.0	11.0	3.8	3.1	1.9	1.2	1.0	1.1	2.6	3.9
12	6.5	1.4	6.5	11.2	3.5	2.8	1.9	1.2	1.1	1.1	2.6	4.6
13	6.2	1.4	6.0	10.0	3.6	2.5	1.7	2.4	2.2	1.1	3.2	13.2
14	6.5	1.3	5.9	9.2	3.6	2.3	1.5	1.9	1.6	1.1	3.5	12.8
15	13.7	1.3	6.0	8.9	3.5	2.2	1.4	1.5	1.2	1.0	3.2	15.4
16	14.1	1.3	6.0	8.3	3.1	2.0	2.3	1.3	1.0	0.9	3.6	10.0
17	13.0	1.3	6.8	7.5	3.0	3.6	3.0	1.0	0.9	0.8	5.0	8.3
18	11.1	2.5	7.4	7.0	² 10.5	3.3	5.9	0.8	0.8	0.8	5.1	7.3
19	8.6	3.5	7.7	6.5	14.0	2.7	5.3	0.7	0.7	0.7	4.9	6.7
20	7.0	6.0	9.0	6.0	10.1	2.3	4.2	0.6	0.6	0.7	4.3	10.5
21	6.6	7.5	11.6	5.7	8.1	2.7	3.5	0.5	0.6	0.7	4.0	13.9
22	5.7	13.0	9.0	5.2	7.0	1.7	2.8	0.7	0.6	0.7	3.5	12.0
23	5.0	12.5	8.7	4.8	5.9	1.7	2.4	0.6	0.6	0.7	3.3	9.9
24	6.0	10.0	9.3	4.6	5.2	1.5	2.0	0.5	0.7	0.6	3.8	8.4
25	6.5	9.1	9.3	4.3	4.6	1.8	1.7	0.7	0.7	0.6	4.3	8.5
26	6.1	8.0	8.8	4.3	4.2	1.9	2.1	0.7	0.7	0.6	3.6	7.0
27	5.7	11.1	8.5	4.4	3.6	1.9	4.6	0.9	0.6	0.6	3.2	6.9
28	5.4	11.4	7.8	4.6	3.5	2.0	3.7	0.7	0.6	0.5	2.9	6.5
29	5.2	-----	11.0	4.3	3.3	2.8	3.0	0.7	0.6	0.6	2.7	5.0
30	4.5	-----	13.8	4.1	6.6	2.8	2.3	1.2	1.8	0.7	2.5	4.5
31	3.5	-----	12.1	-----	7.7	-----	2.0	0.9	-----	0.8	-----	4.0

¹14.6 at 6 p. m.²15.0 at 6 p. m.

DAILY RIVER STAGES.

297

Ohio River system (Allegheny River branch)—Red Bank Creek, Brookville, Pa.

1896.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.2	1.8	3.0	3.1	1.0	-0.2	0.0	1.3	-0.6	1.9	0.3	1.0
2	1.9	2.6	3.0	2.3	0.7	-0.3	-0.2	5.3	-0.2	0.7	0.2	1.0
3	1.8	2.8	2.8	2.0	0.9	0.1	-0.2	3.1	-0.2	0.2	0.2	1.0
4	1.8	2.5	2.8	1.8	0.4	0.2	0.6	1.8	-0.2	0.2	0.2	1.0
5	1.8	2.1	2.5	1.8	0.8	0.2	0.4	0.5	-0.4	0.2	0.5	1.0
6	1.8	2.3	2.5	1.0	1.0	0.0	0.4	-0.2	0.0	-0.1	0.7	1.0
7	1.8	2.9	2.9	1.2	0.7	0.0	0.4	-0.2	0.0	-0.1	0.7	1.0
8	1.8	2.6	2.7	1.5	0.3	0.1	0.0	-0.8	0.3	-0.1	0.6	1.0
9	1.8	2.6	2.7	1.6	0.1	0.8	0.0	-0.4	0.0	-0.1	0.6	3.7
10	1.8	2.6	2.7	1.6	0.0	0.9	-0.2	-0.4	-0.2	-0.1	0.6	3.5
11	1.8	2.2	2.7	1.4	0.0	1.0	-0.6	0.2	-0.5	-0.1	1.2	3.0
12	1.8	2.0	2.7	2.2	0.0	0.6	-0.6	0.2	-0.5	0.4	1.0	2.2
13	1.8	2.1	2.7	2.0	0.3	0.2	-0.6	0.1	0.2	0.4	1.0	1.8
14	1.8	2.4	2.7	2.0	0.0	0.3	-0.3	-0.3	-0.3	0.9	1.0	1.2
15	1.8	2.4	2.7	1.6	0.0	0.5	-0.3	0.0	-0.3	1.8	1.0	1.0
16	1.8	2.2	2.7	1.9	0.0	0.5	-0.5	0.0	-0.5	0.8	1.0	1.0
17	1.8	2.2	2.7	1.5	0.0	0.8	-0.1	0.0	-0.5	0.2	1.0	1.0
18	1.8	2.2	2.7	1.0	0.0	0.4	0.2	0.0	-0.2	0.2	1.0	1.0
19	1.8	2.2	2.7	1.1	0.0	0.1	0.0	0.2	0.0	0.2	1.0	1.0
20	1.8	2.2	2.7	0.9	0.0	0.1	0.0	-0.2	0.4	0.4	1.0	1.0
21	1.8	2.2	2.7	0.9	0.2	0.0	0.0	-0.2	0.4	0.4	1.0	1.0
22	1.8	2.2	2.9	0.9	0.2	0.4	-0.3	-0.2	0.1	0.2	1.2	1.0
23	1.8	2.2	2.9	0.7	0.0	0.2	-0.1	0.2	0.0	0.2	1.1	1.0
24	1.8	2.2	2.9	1.1	-0.2	0.2	0.1	0.2	0.0	0.2	1.0	1.0
25	1.8	2.2	2.9	1.4	-0.4	0.6	1.3	0.0	0.0	0.2	1.0	1.0
26	1.8	2.2	2.9	1.0	0.0	0.9	0.8	-0.4	0.0	0.0	1.0	1.0
27	1.8	2.2	3.7	0.9	0.0	0.5	0.5	-0.4	-0.4	0.0	1.0	1.0
28	1.8	2.2	3.4	0.9	0.0	0.2	0.9	-0.4	-0.4	0.0	1.7	1.0
29	1.8	2.4	3.9	1.3	0.4	0.2	1.2	-0.6	-0.4	0.0	1.5	1.0
30	1.8	-----	4.2	1.0	0.0	0.0	1.9	-0.6	2.8	0.3	1.3	1.0
31	1.8	-----	4.0	-----	0.0	-----	2.2	-0.6	-----	0.3	-----	1.0

1897.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.0	1.0	2.5	1.6	0.2	-0.9	-0.9	0.1	-0.5	-0.2	-0.2	1.5
2	1.0	1.0	2.0	1.4	0.3	-1.1	-0.9	-0.1	-0.3	-0.2	-0.2	1.0
3	1.0	1.0	2.4	1.0	0.3	-1.1	-0.9	-0.2	-0.3	-0.2	0.1	1.0
4	1.0	1.0	3.2	1.0	0.4	-1.1	-0.9	-0.5	-0.4	-0.2	0.2	1.0
5	1.0	1.0	3.0	1.0	0.1	-1.1	-0.9	-0.5	-0.6	-0.2	0.1	2.2
6	1.0	1.0	4.8	1.0	-0.2	-1.1	-0.9	-0.5	-0.6	-0.2	0.1	2.0
7	1.0	1.2	3.4	1.0	-0.4	-1.1	-0.9	-0.5	-0.6	-0.2	0.1	2.0
8	1.0	1.3	2.2	1.0	-0.5	-1.1	-0.9	-0.5	-0.6	-0.2	0.1	2.0
9	1.0	1.3	2.0	1.4	-0.7	-1.1	-0.9	-0.5	-0.6	-0.2	0.3	1.8
10	1.0	1.3	2.4	2.9	-0.7	-1.1	-0.9	-0.5	-0.6	-0.2	0.6	1.8
11	1.0	1.3	2.3	2.4	-0.7	-1.1	-0.9	-0.5	-0.6	-0.2	0.7	2.2
12	1.0	1.3	2.0	2.1	-0.7	-1.1	-0.5	-0.5	-0.6	-0.2	0.9	2.5
13	1.0	1.3	2.0	1.9	-0.6	-1.1	-0.7	-0.5	-0.6	-0.2	0.9	2.1
14	1.0	1.3	2.0	1.9	-0.5	-1.1	-0.7	-0.5	-0.6	-0.2	0.9	2.0
15	1.0	1.3	2.0	2.0	-0.5	-1.1	-0.7	-0.5	-0.6	-0.2	0.9	2.4
16	1.0	1.3	1.8	1.8	-0.6	-1.1	-0.8	-0.3	-0.6	-0.2	1.2	2.2
17	1.0	1.3	1.8	1.8	-0.6	-1.1	-0.8	-0.1	-0.6	-0.2	1.8	1.7
18	1.0	1.4	1.8	1.8	-0.6	-0.6	-0.8	-0.2	-0.6	-0.2	1.6	2.1
19	1.0	1.4	1.8	1.8	-0.8	-0.7	-0.1	-0.2	-0.6	-0.2	1.2	1.8
20	1.0	1.4	2.1	1.8	-0.8	-0.7	-0.3	-0.2	-0.6	-0.2	1.0	1.6
21	1.0	1.6	2.2	1.4	-0.8	-0.9	2.2	-0.4	-0.6	-0.2	1.0	1.5
22	1.0	1.7	2.0	1.1	-0.8	-0.9	1.8	-0.4	-0.6	-0.2	0.7	1.5
23	1.0	3.4	2.0	1.0	-0.8	-0.9	1.4	-0.4	-0.6	-0.2	0.7	1.5
24	1.0	4.1	2.4	0.8	-0.8	-0.9	0.8	-0.5	-0.2	-0.2	0.7	1.5
25	1.0	3.2	2.4	0.4	-0.8	0.1	0.6	-0.5	-0.1	-0.2	0.7	1.5
26	1.0	2.8	2.2	0.4	-0.8	-0.6	0.2	-0.5	-0.1	-0.2	0.9	1.5
27	1.0	2.7	1.7	0.4	-0.8	-0.8	0.8	-0.5	-0.1	-0.2	2.8	1.5
28	1.0	2.5	1.7	0.2	-0.8	-0.8	1.2	-0.5	-0.2	-0.2	1.7	1.1
29	1.0	-----	1.7	0.2	-0.9	-0.9	0.7	-0.5	-0.2	-0.2	1.5	1.0
30	1.0	-----	1.6	0.2	-0.9	-0.9	0.4	-0.5	-0.2	-0.2	1.5	1.0
31	1.0	-----	1.6	-----	-0.9	-----	0.2	-0.5	-----	-0.2	-----	1.0

Ohio River system (Allegheny River branch)—Red Bank Creek, Brookville, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.0	0.9	0.7	1.6	1.0	1.2	0.8	0.2	0.5	0.2	1.0	1.1
2	1.0	0.9	0.4	1.4	1.0	1.0	0.5	0.2	0.5	0.2	1.0	1.0
3	0.8	0.9	0.4	1.4	1.0	1.0	0.5	0.2	0.5	0.2	1.0	1.0
4	0.8	0.9	0.7	1.0	1.0	0.6	0.5	0.2	0.5	0.2	1.0	1.0
5	0.8	0.9	0.5	1.0	1.0	0.3	0.5	0.4	0.5	0.6	1.0	1.0
6	0.8	0.9	0.4	1.0	1.0	0.2	0.5	0.5	0.5	0.7	1.0	1.0
7	0.8	0.7	0.4	1.0	1.0	0.2	0.4	0.5	0.5	0.7	1.2	1.0
8	0.8	0.7	0.4	0.8	1.0	0.1	0.4	0.4	0.5	0.7	1.2	1.0
9	0.8	0.7	0.4	0.7	1.0	0.1	0.4	0.7	0.5	0.5	1.0	1.0
10	0.8	0.7	0.4	0.7	1.0	0.1	0.4	0.6	0.5	0.5	1.4	1.0
11	0.8	0.7	0.4	0.7	1.0	0.1	0.4	0.6	0.5	0.5	3.2	1.0
12	0.8	2.2	0.4	0.4	1.0	0.1	0.4	0.6	0.5	0.5	2.5	1.0
13	5.3	2.5	1.6	0.4	1.0	1.8	0.2	0.6	0.5	0.5	1.9	1.0
14	3.8	2.1	1.8	0.4	1.0	2.1	0.2	0.6	0.3	0.5	1.5	1.0
15	2.7	2.0	2.1	0.4	1.0	2.0	0.2	0.6	0.3	0.5	1.4	1.0
16	2.4	1.8	2.0	0.4	1.0	1.7	0.2	0.6	0.2	0.5	1.4	1.0
17	2.2	1.8	2.2	0.4	1.0	1.5	0.2	0.6	0.2	0.5	1.4	1.0
18	1.8	1.8	1.8	0.4	1.0	1.3	0.2	0.9	0.2	0.5	1.4	1.0
19	1.7	1.2	1.8	0.4	1.2	1.3	0.2	2.8	0.2	0.5	1.4	1.0
20	1.4	0.8	4.5	0.4	1.5	1.0	0.2	2.0	0.2	0.5	1.4	1.0
21	2.2	1.1	3.4	0.4	1.6	1.0	0.2	1.3	0.2	0.5	1.4	1.2
22	1.5	1.7	3.2	0.4	1.5	1.0	0.2	1.0	0.2	1.4	1.4	2.1
23	3.7	1.5	10.5	0.4	1.5	1.0	0.2	0.8	0.2	1.6	1.4	2.3
24	3.3	1.1	6.9	1.2	1.5	1.0	0.2	0.8	0.2	1.3	1.4	2.0
25	2.0	1.1	3.7	1.3	1.5	1.0	0.2	0.8	0.2	1.2	1.4	1.8
26	2.0	1.1	2.9	1.0	1.5	1.0	0.2	0.7	0.2	1.2	1.4	1.7
27	2.0	0.8	2.6	1.0	1.7	0.8	0.2	0.7	0.2	1.2	1.4	1.3
28	1.7	0.7	1.9	1.0	1.7	0.8	0.2	0.7	0.2	1.0	1.4	1.3
29	1.2		2.4	1.0	1.4	0.8	0.2	0.7	0.2	1.0	1.4	1.2
30	0.9		2.2	1.0	1.4	0.8	0.2	0.7	0.2	1.0	1.4	1.0
31	0.9		2.0		1.2		0.2	0.7		1.0		1.0

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1	1.0	0.7	1.2	1.8	0.7	0.7	0.6	0.4	-0.2	0.2	1.2	1.0
2	1.0	0.7	1.3	1.8	0.7	0.9	0.6	0.4	1.4	0.2	1.4	1.2
3	1.0	0.7	1.1	1.8	0.7	0.8	0.5	0.4	0.8	0.2	1.0	1.2
4	1.0	0.7	1.1	1.8	0.7	0.8	0.5	0.6	0.6	0.2	1.0	1.2
5	1.2	0.7	2.8	1.4	0.7	0.7	0.5	0.6	0.2	0.2	1.0	1.0
6	1.3	0.7	2.2	1.2	0.7	0.7	0.8	0.5	0.2	0.2	1.0	1.0
7	1.3	0.7	1.5	1.0	0.7	0.7	0.8	0.4	0.2	0.2	1.0	1.0
8	1.1	0.7	1.2	2.2	0.7	0.7	0.7	0.4	0.2	0.2	1.0	1.0
9	1.1	0.7	1.2	2.0	0.7	0.5	0.9	0.4	0.2	0.2	1.0	1.0
10	1.1	0.7	1.0	1.6	0.7	0.5	0.8	0.4	0.2	0.2	1.0	1.0
11	1.1	0.7	1.0	1.4	0.7	0.5	0.7	0.4	0.2	0.2	1.0	1.0
12	1.0	0.7	1.0	1.4	0.7	0.5	0.7	0.4	0.2	0.2	1.6	2.2
13	1.0	0.7	1.0	1.2	0.7	0.5	0.7	0.4	0.2	0.2	1.4	2.6
14	1.0	0.7	1.0	1.0	0.7	0.5	0.7	0.4	0.2	0.2	1.4	2.0
15	2.4	0.7	1.0	1.0	0.7	0.5	0.7	0.4	0.2	0.2	1.4	1.6
16	2.2	0.7	1.0	1.0	0.5	0.5	1.1	0.4	0.2	0.2	1.4	1.6
17	2.2	0.7	1.0	1.0	0.9	0.4	1.8	0.4	0.2	0.2	1.4	1.6
18	1.7	0.7	1.0	1.0	3.5	0.4	1.7	0.4	0.2	0.2	1.4	1.4
19	1.5	0.7	2.7	1.0	3.0	0.4	1.2	0.4	0.2	0.2	1.4	1.8
20	1.1	0.7	2.0	1.0	2.7	0.4	0.7	0.4	0.2	0.2	1.4	1.8
21	1.0	0.7	1.8	1.0	2.1	0.4	0.4	0.4	0.2	0.2	1.4	1.8
22	1.0	1.9	1.7	1.0	1.3	0.4	0.4	0.4	0.2	0.2	1.4	1.6
23	0.8	1.6	1.5	1.0	1.0	0.4	0.4	0.4	0.2	0.2	1.4	1.6
24	0.7	1.1	1.5	0.8	0.8	0.4	0.4	0.4	0.2	0.2	1.4	1.6
25	0.7	1.0	1.5	0.7	0.8	0.6	0.4	0.1	0.2	0.2	1.4	1.6
26	0.7	1.0	1.5	0.7	0.8	0.6	0.7	-0.1	0.6	0.2	1.2	1.4
27	0.7	1.2	1.1	0.7	0.7	0.5	0.2	-0.1	0.6	0.2	1.2	1.4
28	0.7	1.2	1.1	0.7	0.7	0.5	0.4	-0.1	0.3	0.2	1.0	1.4
29	0.7		2.0	0.7	0.7	0.7	0.4	-0.1	0.3	0.4	1.0	1.4
30	0.7		2.0	0.7	0.7	0.6	0.4	-0.2	0.2	0.4	1.0	1.4
31	0.7		1.8		0.7		0.4	-0.2		0.4		1.4

DAILY RIVER STAGES.

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Ohio River system (Allegheny River branch)—Conemaugh River, Johnstown, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	1.5	2.7	6.0	2.9	1.8	2.1	2.2	1.0	4.0	1.1	1.9
2	1.6	1.8	2.9	5.0	2.9	1.7	1.9	1.9	1.0	3.2	1.0	1.6
3	1.6	3.5	2.5	4.3	2.8	1.6	1.8	1.7	1.1	2.6	1.0	1.5
4	1.2	3.6	2.2	3.9	2.8	1.6	1.8	1.6	1.0	1.8	1.0	1.5
5	1.1	3.3	2.0	3.8	2.6	1.9	2.1	1.4	0.9	1.6	2.4	1.4
6	1.0	3.1	1.9	3.8	2.6	1.9	2.4	1.4	1.1	1.5	2.6	1.4
7	1.0	4.4	2.0	3.6	2.4	1.8	2.3	1.4	1.1	1.5	2.2	1.5
8	0.9	3.8	2.5	3.5	2.2	1.8	2.2	1.5	1.0	1.4	2.0	1.4
9	0.9	2.9	2.4	3.5	2.3	2.0	2.8	1.4	0.8	1.2	2.0	2.4
10	0.8	2.5	2.4	3.8	2.2	2.1	2.6	1.6	0.7	1.2	1.8	2.5
11	0.7	2.2	2.9	3.8	2.1	2.0	2.5	1.5	0.7	1.1	2.0	2.4
12	0.7	2.0	2.8	4.0	2.2	1.8	2.2	1.4	0.8	1.1	2.2	2.1
13	0.8	2.0	2.4	3.8	2.2	1.7	2.2	1.4	0.9	1.3	2.0	1.9
14	0.8	3.5	2.2	3.6	2.3	1.8	2.4	4.8	0.8	1.4	1.9	1.7
15	0.7	2.8	2.0	3.7	2.2	1.9	2.4	3.1	0.8	1.5	1.8	1.6
16	0.6	3.1	1.9	3.5	2.1	1.7	2.8	2.8	0.7	1.4	1.8	1.6
17	0.6	2.7	1.9	3.5	2.0	2.4	2.7	2.8	0.7	1.2	1.6	1.4
18	0.6	2.3	2.0	3.4	1.8	2.2	2.5	2.6	0.6	1.0	1.6	1.4
19	0.7	2.1	2.3	3.2	1.8	2.0	2.2	2.3	1.2	1.0	1.8	1.7
20	0.7	1.8	3.2	3.2	1.9	1.9	2.2	1.9	2.2	1.1	1.6	1.6
21	0.8	1.6	3.0	3.5	2.0	1.8	2.5	1.8	1.8	1.5	1.6	1.6
22	0.8	1.6	3.6	3.8	2.0	1.9	2.5	1.8	1.4	1.5	2.4	1.4
23	0.8	1.5	3.4	3.6	1.9	1.9	2.4	1.9	1.4	1.3	2.2	1.4
24	0.9	1.7	3.1	3.6	1.8	2.4	2.6	1.9	1.2	1.7	2.1	1.1
25	1.5	1.9	2.9	3.8	1.6	3.0	5.2	1.8	1.0	1.6	2.2	1.0
26	1.8	1.8	3.4	3.6	1.6	3.0	4.3	1.6	1.0	1.5	2.0	1.0
27	1.6	1.9	3.8	3.4	1.7	2.8	3.8	1.6	0.9	1.4	1.8	0.9
28	1.4	2.1	3.6	3.3	1.6	2.6	2.8	1.5	0.9	1.4	1.9	0.9
29	1.4	2.3	6.5	3.1	1.8	2.6	2.6	1.3	0.8	1.3	2.2	0.8
30	1.2	.....	8.0	3.1	1.7	2.4	2.8	1.2	10.5	1.1	2.1	0.8
31	1.3	.....	7.1	.....	1.8	.....	2.6	1.2	.....	1.1	.....	1.0

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.6	Frozen.	2.4	2.5	1.5	1.2	1.0	1.8	0.9	1.4	0.5	2.1
2	1.6	.....	2.2	2.4	4.2	1.1	1.1	1.6	1.0	1.3	1.8	2.1
3	1.9	.....	3.1	2.1	4.5	1.1	1.0	1.5	1.0	1.2	1.5	2.0
4	1.8	1.8	3.6	2.0	2.8	1.4	1.0	1.4	0.9	1.2	1.4	2.0
5	2.6	1.7	3.8	2.4	3.1	1.5	0.8	1.4	0.8	1.1	1.2	3.8
6	2.4	1.6	8.5	2.5	2.8	1.4	0.9	1.2	0.8	1.1	1.2	3.5
7	2.0	3.0	5.8	2.2	2.4	1.4	1.7	1.1	0.8	1.1	1.0	3.1
8	1.9	2.9	4.2	2.2	2.1	1.5	1.4	1.1	0.7	1.0	1.1	2.8
9	1.9	2.8	3.6	5.0	1.8	1.7	1.2	1.0	0.7	0.8	2.4	2.6
10	1.8	2.4	3.6	4.8	1.8	1.6	1.2	1.1	0.6	0.8	2.5	2.4
11	1.8	2.2	4.2	4.0	1.7	1.4	1.0	2.2	0.6	0.7	2.2	2.4
12	1.6	2.2	4.0	3.2	1.8	1.5	1.2	2.0	0.6	0.7	2.2	2.3
13	1.5	2.1	3.6	2.6	3.5	1.4	1.3	1.8	0.7	0.7	2.1	2.1
14	1.4	2.2	3.2	2.4	3.8	1.6	1.2	1.5	0.8	0.6	1.8	2.1
15	1.4	2.1	3.0	3.3	3.7	1.5	1.2	1.3	0.7	0.6	2.8	3.3
16	1.2	2.2	2.8	4.4	2.8	1.6	1.1	1.2	0.6	0.6	3.8	3.9
17	1.4	2.1	2.8	4.0	2.5	1.6	1.0	1.2	0.9	0.6	3.5	3.5
18	1.5	4.2	3.5	3.4	2.2	2.0	1.0	1.2	0.8	0.5	3.0	3.8
19	1.5	4.0	4.3	2.9	2.1	1.8	1.2	1.3	0.8	0.5	2.8	3.4
20	1.4	3.8	5.8	2.5	1.9	1.7	2.5	1.2	0.9	0.5	2.5	2.8
21	1.4	3.6	4.5	2.2	1.8	1.5	1.9	1.1	0.8	0.6	2.3	2.8
22	1.5	4.8	4.0	2.1	1.8	1.5	2.8	1.1	0.7	0.6	2.2	2.5
23	1.8	10.5	4.5	1.8	1.6	1.4	2.5	1.0	0.7	0.6	2.2	2.2
24	1.7	6.2	4.5	1.8	1.7	1.2	2.6	1.2	2.0	0.5	2.0	2.0
25	1.6	4.4	4.6	1.6	1.8	1.2	2.1	1.2	2.2	0.5	2.0	1.9
26	Frozen.	3.7	4.0	1.8	1.7	1.4	1.8	1.1	1.8	0.4	1.9	1.8
27 .....	.....	3.2	3.2	2.0	1.6	1.4	1.9	1.0	1.6	0.4	2.0	1.8
28 .....	.....	2.9	2.9	1.7	1.6	1.2	2.8	1.0	1.6	0.4	2.4	1.7
29 .....	.....	.....	2.8	1.6	1.4	1.2	2.6	0.8	1.4	0.4	2.2	1.7
30 .....	.....	.....	2.8	1.6	1.4	1.0	2.4	0.8	1.4	0.4	2.2	1.8
31 .....	.....	.....	2.6	.....	1.2	.....	2.1	0.9	.....	0.5	.....	1.8

DAILY RIVER STAGES.

Ohio River system (*Allegheny River branch*)—Conemaugh River, Johnstown, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	2.1	2.2	4.1	2.0	2.1	1.6	1.4	2.2	1.1	2.0	1.4
2	1.6	2.0	2.1	3.8	2.0	2.0	1.7	1.4	2.1	1.1	2.0	1.4
3	1.6	2.0	2.1	3.5	1.8	1.8	1.6	1.3	2.0	1.0	1.9	1.5
4	1.4	1.8	2.1	3.4	1.8	1.8	1.5	1.4	1.8	1.0	1.9	1.6
5	1.4	1.8	2.0	3.2	1.8	1.7	1.4	2.0	1.8	1.0	1.8	1.6
6	1.4	1.7	1.8	2.9	1.9	1.6	1.4	1.8	1.9	1.2	1.8	1.7
7	1.8	1.7	1.9	2.5	2.4	1.4	1.2	1.8	1.8	1.1	1.9	1.7
8	2.2	1.7	2.0	2.3	3.0	1.4	1.2	1.6	1.8	1.2	1.8	1.6
9	3.4	1.8	2.0	2.2	2.9	1.4	1.2	2.2	1.6	1.4	1.8	1.6
10	3.3	1.9	1.8	2.2	2.5	1.5	1.1	3.2	1.7	1.3	1.9	1.4
11	4.5	3.1	1.8	2.3	2.4	2.0	1.0	3.8	1.6	1.3	3.8	1.4
12	4.2	3.6	1.9	2.2	2.2	1.8	1.0	3.0	1.5	1.3	3.2	1.4
13	5.1	3.4	2.1	2.1	2.2	1.6	1.0	3.0	1.5	1.2	2.8	1.3
14	4.8	3.0	2.4	2.0	2.1	2.2	0.8	2.8	1.5	1.2	2.5	1.2
15	4.8	2.8	2.3	2.2	2.1	2.0	0.8	2.4	1.4	1.3	2.4	1.2
16	5.8	2.6	2.5	2.3	4.6	2.0	0.9	2.2	1.4	1.2	2.2	1.1
17	4.4	2.6	2.6	2.1	4.4	1.9	0.8	2.1	1.4	1.2	2.2	1.2
18	4.0	2.7	2.4	2.1	3.4	1.8	1.2	2.3	1.2	1.2	2.1	1.3
19	3.4	2.8	2.2	2.0	2.6	1.8	1.2	3.6	1.3	5.0	2.1	1.4
20	3.6	3.2	2.4	2.1	2.8	1.8	1.6	4.2	1.2	3.2	2.2	2.2
21	4.5	3.4	4.8	2.1	2.9	1.6	1.5	3.4	1.2	2.4	2.2	3.1
22	4.0	3.1	5.9	2.0	2.6	1.7	1.3	3.0	1.1	9.0	2.1	3.0
23	6.1	3.0	7.4	2.0	4.5	1.6	1.2	2.8	1.2	5.0	2.2	3.5
24	4.8	2.8	4.9	2.8	3.4	1.6	1.2	2.6	1.4	3.2	2.0	3.2
25	3.9	2.5	4.2	2.8	3.2	1.5	1.1	2.9	1.4	2.6	1.9	3.0
26	6.8	2.4	3.4	2.6	2.8	1.6	1.3	2.8	1.3	2.5	1.8	3.0
27	4.0	2.4	3.2	2.5	2.6	1.6	1.4	2.8	1.3	2.6	1.6	2.8
28	3.4	2.2	3.1	2.3	2.5	1.8	1.4	2.7	1.2	2.4	1.6	2.8
29	3.1	-----	7.0	2.1	2.4	1.7	1.3	2.6	1.2	2.4	1.5	2.6
30	2.5	-----	4.5	2.1	2.2	1.6	1.3	2.4	1.1	2.2	1.4	2.6
31	2.3	-----	4.5	-----	2.1	-----	1.2	2.2	-----	2.2	-----	2.5

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1	2.4	2.1	3.5	3.3	1.6	1.8	2.1	1.4	1.6	1.2	1.8	2.2
2	2.4	2.1	3.4	3.1	1.5	2.0	2.0	1.4	1.6	1.1	3.8	2.2
3	2.2	2.0	3.2	3.0	1.9	1.8	1.8	1.4	1.5	1.2	2.6	2.1
4	2.4	3.8	3.0	2.6	1.8	1.8	1.8	1.8	1.4	1.1	2.4	2.0
5	2.6	3.2	4.2	2.5	1.8	1.7	1.8	2.4	1.4	1.1	2.1	2.0
6	2.5	2.6	5.6	2.4	1.7	1.6	1.7	2.1	1.4	1.1	2.0	1.9
7	2.5	2.4	4.4	2.4	1.7	1.6	1.8	2.0	1.2	1.0	1.8	1.9
8	2.4	2.4	3.8	5.8	1.7	1.7	1.8	2.0	1.2	1.0	1.8	2.0
9	2.4	2.2	3.3	4.2	2.4	1.7	1.9	1.8	1.4	1.4	1.7	2.0
10	2.3	2.0	3.2	3.5	2.2	1.6	1.9	1.7	1.4	1.4	1.6	1.9
11	2.2	Frozen.	2.9	3.2	2.0	1.7	1.8	1.8	2.2	1.2	1.6	2.0
12	2.2	-----	2.8	2.6	1.9	1.6	1.7	1.8	2.4	1.2	2.0	3.0
13	2.1	-----	2.8	2.4	1.8	1.6	1.6	1.6	1.8	1.1	1.8	4.6
14	2.9	-----	2.6	2.3	1.8	1.5	1.6	1.6	1.8	1.1	1.8	3.8
15	4.8	-----	2.5	2.2	1.6	1.4	1.8	1.5	1.6	1.0	1.8	3.5
16	3.4	-----	2.8	2.2	1.6	1.6	1.8	1.4	1.5	1.0	1.7	3.2
17	2.9	-----	2.6	2.1	1.8	1.6	1.6	1.4	1.4	0.9	1.6	3.1
18	2.6	-----	2.6	2.1	8.7	1.5	2.0	1.2	1.2	0.9	1.6	3.0
19	2.4	2.2	3.8	2.0	4.6	1.4	1.9	1.2	1.2	0.9	1.8	3.0
20	2.4	2.2	4.0	2.0	3.5	1.4	1.8	1.0	1.3	0.8	1.8	3.2
21	2.2	2.6	3.4	1.9	2.9	1.2	1.8	0.9	1.4	0.8	1.7	3.2
22	2.1	5.2	3.2	1.9	2.6	1.3	1.6	0.9	1.4	0.8	1.7	3.0
23	2.2	4.8	2.9	1.8	2.4	1.2	1.4	0.8	1.3	0.7	1.8	3.0
24	2.2	3.9	2.8	1.8	2.3	1.2	1.4	0.8	1.2	0.7	3.2	2.9
25	3.4	3.4	2.6	1.6	2.0	1.1	1.4	0.8	1.2	0.7	3.0	3.6
26	3.2	2.5	2.6	1.6	2.0	1.2	1.3	0.7	1.3	0.6	2.8	3.2
27	3.1	4.2	2.4	1.7	1.9	1.1	1.4	1.4	1.4	0.5	2.6	2.8
28	2.6	3.8	3.0	1.6	1.7	1.0	1.6	2.8	1.3	0.5	2.5	2.6
29	2.4	-----	5.4	1.6	1.7	2.4	1.5	2.4	1.3	0.5	2.5	2.4
30	2.2	-----	4.2	1.7	2.1	2.2	1.7	1.8	1.2	0.5	2.4	2.4
31	2.1	-----	3.8	-----	2.0	-----	1.6	1.8	-----	0.6	-----	2.2

18.0 at 5 p. m.

DAILY RIVER STAGES.

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Ohio River system—Beaver River, Ellwood Junction, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.0	2.2	-----	5.0	2.6	1.8	1.8	2.9	1.5	3.0	1.8	3.0
2	2.6	5.1	3.0	4.0	2.8	1.8	1.8	2.6	1.5	3.0	1.8	3.0
3	1.8	6.0	2.5	3.5	3.1	1.6	1.6	2.4	1.5	3.0	1.8	2.8
4	1.4	6.0	2.3	3.5	3.5	1.8	1.5	2.0	1.5	2.6	1.8	2.6
5	1.2	5.1	2.1	2.8	3.2	1.6	1.5	1.9	1.5	2.2	1.8	2.6
6	1.0	4.0	2.5	2.8	3.1	1.7	1.5	1.9	1.5	2.0	2.0	2.6
7	0.7	6.1	2.8	3.4	3.0	1.9	1.6	1.8	1.5	2.0	2.0	2.3
8	0.6	5.3	2.9	3.4	2.9	2.0	1.6	1.8	1.3	2.0	2.0	2.0
9	0.6	3.9	2.8	3.0	2.9	3.2	1.7	1.8	1.3	2.0	1.8	2.6
10	0.5	2.5	2.3	3.2	2.9	3.5	1.7	2.0	1.3	1.8	1.8	3.6
11	0.3	2.2	2.4	3.6	2.6	3.4	1.6	3.0	1.3	1.8	1.8	3.6
12	0.2	2.2	2.5	4.0	2.6	3.0	1.6	2.9	1.0	1.8	2.0	3.0
13	0.2	2.2	2.3	4.4	2.4	3.0	1.5	2.6	1.0	1.8	2.0	2.6
14	0.2	3.0	2.0	4.2	2.3	3.3	1.5	2.8	1.0	1.8	2.0	2.4
15	0.1	2.9	2.0	3.8	2.2	3.0	1.9	2.6	1.0	1.8	2.0	2.2
16	0.1	2.8	2.0	3.5	2.1	2.8	2.9	2.3	1.0	2.3	2.0	2.2
17	0.1	2.7	2.2	3.2	2.0	3.0	2.7	2.3	1.0	2.3	2.0	2.2
18	0.1	2.7	2.2	3.2	2.0	2.9	2.6	2.3	1.0	2.3	2.0	2.2
19	0.0	2.7	2.4	3.0	1.9	2.4	2.3	2.2	1.0	2.0	2.0	2.2
20	0.0	2.7	2.6	2.9	1.9	2.2	2.2	2.0	1.6	2.0	2.0	2.2
21	0.0	2.7	2.6	3.2	2.0	2.0	2.2	2.0	1.6	1.8	2.0	2.0
22	0.0	2.7	2.8	3.0	1.9	2.3	2.2	1.8	1.6	1.8	2.0	2.0
23	0.0	2.7	2.6	3.0	1.8	2.2	2.4	1.8	1.6	1.8	2.0	2.0
24	0.1	2.7	2.6	3.4	1.8	2.6	2.2	1.8	1.6	1.8	2.0	2.0
25	8.4	2.7	2.3	3.2	1.8	3.0	2.3	1.8	1.4	1.8	2.0	2.0
26	10.0	2.7	5.0	3.0	1.9	3.3	2.3	1.8	1.4	1.8	2.0	2.0
27	7.4	2.7	8.5	3.0	1.7	3.0	2.3	1.8	1.4	1.8	2.0	1.8
28	5.1	2.7	7.4	3.0	1.6	2.6	3.0	1.8	1.8	1.8	2.4	1.8
29	2.9	2.7	7.0	2.9	1.6	2.3	3.0	1.6	1.8	1.8	3.0	1.8
30	2.4	-----	8.5	2.8	1.7	2.0	3.0	1.6	2.8	1.8	3.0	1.8
31	2.2	-----	7.0	-----	1.6	-----	3.0	1.6	-----	1.8	-----	1.8

1897.

1	2.8	1.8	2.0	1.2	1.1	0.3	0.0	0.8	-0.3	-0.5	-1.3	0.4
2	2.8	1.8	2.0	1.2	3.3	0.2	0.0	0.6	-0.1	-0.5	-1.3	0.3
3	2.8	1.8	2.0	1.0	3.1	0.2	-0.1	0.4	-0.1	-0.6	-1.1	0.2
4	2.8	1.8	2.2	0.8	2.8	0.2	-0.2	0.3	-0.1	-0.6	-1.1	0.2
5	2.8	1.8	2.6	0.8	2.3	0.1	-0.2	0.6	-0.2	-0.6	-1.2	0.2
6	2.8	1.8	5.1	0.9	1.9	0.1	0.8	0.4	-0.2	-0.6	-1.1	0.2
7	2.2	7.8	6.5	1.1	1.6	0.1	0.6	0.3	-0.1	-0.6	-1.1	0.1
8	2.2	14.5	4.0	1.3	1.4	3.6	0.5	0.1	-0.2	-0.7	-1.0	0.1
9	2.0	15.3	3.8	1.7	1.0	2.6	0.4	0.1	-0.3	-0.7	-0.9	0.1
10	2.0	12.5	3.5	4.8	0.8	1.5	0.3	0.1	-0.3	-0.7	-0.8	0.1
11	2.0	8.0	3.2	3.5	0.8	0.9	0.2	0.3	-0.3	-0.7	-0.1	0.2
12	2.0	7.8	2.9	3.1	1.8	0.9	1.0	0.2	-0.4	-0.7	0.2	0.4
13	2.0	7.0	2.2	2.6	2.4	0.8	1.4	0.1	-0.4	-0.8	0.2	0.6
14	2.0	6.5	2.0	3.0	2.8	0.6	1.3	0.0	-0.4	-0.8	0.2	0.6
15	2.0	5.0	1.9	3.2	2.5	0.5	1.5	0.0	-0.4	-0.8	0.3	2.6
16	2.0	4.0	1.8	2.9	2.0	0.4	1.4	0.1	-0.4	-0.9	0.7	3.6
17	2.0	3.5	1.7	2.6	1.7	0.4	2.0	0.3	-0.3	-0.9	1.4	2.6
18	2.0	3.0	1.6	2.3	1.4	0.4	1.6	0.2	-0.4	-1.0	1.4	2.6
19	2.6	2.8	1.7	2.0	1.2	0.3	1.7	0.1	-0.3	-1.0	1.2	2.4
20	2.6	2.8	1.9	1.8	1.0	0.3	3.0	0.1	-0.4	-1.1	1.0	2.4
21	2.6	2.8	3.5	1.7	1.0	0.2	2.2	0.1	-0.3	-1.2	0.6	2.0
22	2.6	2.8	3.0	1.6	1.1	0.1	1.8	0.0	-0.2	-1.2	0.4	1.9
23	2.6	3.3	2.6	1.6	1.0	0.1	5.8	0.0	-0.2	-1.2	0.3	1.6
24	2.6	3.3	2.7	1.5	1.0	0.1	3.8	0.0	-0.2	-1.2	0.2	1.4
25	2.3	3.0	4.2	1.4	1.0	0.1	2.6	0.0	-0.3	-1.2	0.2	1.4
26	2.0	2.6	3.2	1.4	0.9	0.1	2.0	-0.1	-0.4	-1.2	0.2	1.3
27	2.0	2.6	3.0	1.8	0.8	0.0	1.8	-0.1	-0.4	-1.2	0.6	1.3
28	2.0	2.6	2.6	1.7	0.7	0.0	2.1	-0.2	-0.4	-1.3	0.5	1.2
29	2.0	-----	2.1	1.5	0.6	-0.1	1.7	-0.2	-0.5	-1.3	0.5	1.1
30	1.8	-----	1.9	1.2	0.5	0.0	1.3	-0.2	-0.5	-1.3	0.5	1.1
31	1.8	-----	1.7	-----	0.4	-----	1.0	-0.3	-----	-1.3	-----	1.2

Ohio River system—Beaver River, Ellwood Junction, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.2	2.5	1.7	2.5	1.4	0.5	0.0	1.3	-0.1	-1.0	1.1	1.0
2	1.2	2.0	1.6	2.3	1.2	0.4	-0.1	1.1	-0.3	-1.1	1.1	1.0
3	1.1	2.0	1.6	2.2	1.2	0.2	-0.2	0.9	-0.4	-1.1	1.0	0.9
4	1.0	2.0	1.7	2.1	1.3	0.1	-0.4	1.3	-0.4	-1.1	0.8	1.0
5	1.0	2.0	1.7	2.0	1.3	0.1	-0.4	2.1	-0.5	-1.1	0.7	1.2
6	1.0	2.0	1.7	2.0	1.3	0.0	-0.5	1.8	-0.5	-1.1	1.9	1.4
7	1.2	2.0	1.6	1.9	1.4	-0.1	-0.6	1.5	-0.5	-1.1	2.1	1.4
8	1.4	2.0	1.4	1.7	1.5	-0.2	-0.7	1.4	-0.5	-1.0	1.7	1.4
9	1.4	2.0	1.3	1.6	1.4	-0.2	-0.7	1.4	-0.5	-1.0	1.6	1.4
10	1.4	2.6	1.3	1.6	1.2	-0.3	-0.8	1.2	-0.6	-1.1	1.6	1.4
11	1.4	3.5	1.2	1.6	1.2	-0.3	-1.0	0.9	-0.6	-1.1	5.2	1.3
12	1.8	6.0	1.2	1.5	1.4	-0.3	-1.1	0.7	-0.6	-1.1	4.2	1.1
13	4.3	6.9	1.4	1.4	2.5	0.1	-1.1	0.9	-0.6	-1.2	3.0	1.0
14	4.5	5.1	1.4	1.4	1.7	1.0	-1.2	0.8	-0.7	-1.2	2.5	1.0
15	3.3	3.9	1.4	1.4	1.4	1.6	-1.2	0.7	-0.7	-1.2	2.1	1.0
16	2.5	3.3	1.5	1.4	1.5	0.6	-1.3	0.5	-0.7	-1.2	1.5	1.0
17	1.8	3.0	1.6	1.3	1.9	-0.2	-1.3	0.5	-0.7	-1.2	1.3	1.0
18	1.1	2.7	1.5	1.3	1.6	-0.2	-1.3	0.4	-0.8	-1.2	1.3	1.1
19	1.0	2.7	1.4	1.2	1.4	5.0	-1.4	3.8	-0.8	-0.8	1.2	1.1
20	1.2	3.4	4.5	1.3	2.2	2.7	-1.4	3.4	-0.8	0.1	1.2	1.2
21	3.3	6.5	6.2	1.4	2.8	2.0	-1.3	2.3	-0.8	-0.3	1.2	7.0
22	3.3	5.5	5.9	1.3	1.8	1.5	-1.4	1.4	-0.8	0.1	1.1	5.2
23	5.1	4.0	13.2	1.3	1.4	1.3	-1.4	0.9	-0.8	1.9	1.1	5.0
24	4.1	3.5	11.8	1.6	1.2	1.0	-1.5	0.7	-0.8	1.7	1.1	3.7
25	3.0	2.0	8.2	3.0	1.1	0.8	2.0	0.4	-0.8	1.5	1.1	2.6
26	4.5	1.9	6.0	2.2	1.1	1.0	1.1	0.3	-0.8	1.4	1.0	1.5
27	4.0	1.7	3.1	2.1	1.0	0.8	1.1	0.2	-0.9	1.4	1.0	1.2
28	3.5	1.7	2.9	1.9	0.9	0.8	0.9	0.1	-0.9	1.3	1.0	1.2
29	3.0	-----	3.1	1.8	0.8	0.7	0.9	0.1	-1.0	1.2	1.0	1.2
30	2.0	-----	2.9	1.6	0.7	0.4	1.0	0.1	-1.0	1.2	1.0	1.2
31	2.4	-----	2.6	-----	0.6	-----	1.5	0.0	-----	1.2	-----	1.3

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.3	1.4	2.6	1.9	0.9	2.7	0.9	-0.3	-0.2	-0.2	-0.4	-0.4
2	1.2	1.4	2.4	1.7	0.8	2.2	0.8	-0.3	-0.2	-0.2	-0.4	-0.4
3	1.2	1.3	2.2	1.6	0.8	2.0	0.7	-0.3	-0.1	-0.3	-0.5	-0.4
4	1.2	1.4	2.2	1.6	0.8	1.7	0.6	-0.3	-0.1	-0.4	-0.6	-0.5
5	2.5	1.4	3.3	1.6	0.8	1.6	0.5	-0.1	-0.2	-0.4	-0.6	-0.5
6	2.2	1.4	2.8	1.5	0.7	1.5	0.4	0.0	-0.1	-0.4	-0.6	-0.5
7	2.0	1.4	2.5	1.5	0.7	1.5	0.3	0.0	-0.2	-0.5	-0.6	-0.4
8	1.9	1.4	2.2	1.8	0.7	1.5	0.3	-0.1	-0.1	-0.4	-0.5	-0.4
9	1.9	1.4	2.0	2.0	0.7	1.4	0.3	-0.2	-0.1	-0.3	-0.6	-0.4
10	1.8	1.4	1.8	1.8	0.7	1.4	0.2	-0.2	-0.2	-0.3	-0.6	-0.4
11	1.7	1.4	1.7	1.7	0.7	1.4	0.2	-0.1	-0.1	-0.3	-0.6	-0.4
12	1.6	1.4	1.6	1.6	0.7	1.3	0.1	0.3	-0.1	-0.4	-0.6	-0.2
13	1.5	1.4	1.6	1.5	0.6	1.2	0.1	0.3	-0.1	-0.4	-0.5	4.2
14	1.7	1.4	1.5	1.4	0.6	1.2	0.1	0.2	-0.2	-0.4	-0.4	3.9
15	6.9	1.4	1.5	1.3	0.6	1.2	0.0	0.1	-0.2	-0.4	-0.7	4.0
16	6.5	1.4	1.5	1.3	0.6	1.1	0.0	0.1	-0.3	-0.5	-0.7	3.8
17	6.0	1.4	1.4	1.3	0.7	1.0	0.0	0.1	-0.3	-0.5	-0.7	3.2
18	4.4	1.6	1.4	1.2	0.6	1.0	-0.1	0.0	-0.3	-0.4	-0.6	2.9
19	2.3	1.8	1.4	1.2	3.1	1.0	-0.1	0.0	-0.2	-0.4	-0.6	3.4
20	2.0	1.8	2.1	1.2	2.0	0.9	-0.1	-0.1	-0.2	-0.4	-0.6	5.0
21	2.0	2.0	2.0	1.1	1.7	0.9	0.0	-0.1	-0.2	-0.4	-0.5	5.0
22	1.8	5.0	1.9	1.0	1.5	0.8	-0.1	0.0	-0.2	-0.4	-0.5	4.0
23	1.7	6.5	1.9	1.0	1.4	0.7	-0.1	0.0	-0.3	-0.4	-0.5	3.4
24	1.7	4.2	1.9	1.0	1.4	0.6	-0.1	0.0	-0.3	-0.4	-0.5	3.4
25	1.7	3.0	1.9	1.0	1.4	0.8	-0.1	-0.1	-0.3	-0.4	-0.5	2.9
26	1.6	2.8	1.8	1.0	1.2	0.9	-0.1	-0.1	-0.2	-0.4	-0.5	2.8
27	1.6	2.9	1.7	0.9	1.2	0.9	-0.1	0.0	-0.2	-0.4	-0.5	2.8
28	1.5	2.9	1.7	0.9	1.5	0.8	-0.2	0.0	-0.2	-0.4	-0.4	2.8
29	1.4	-----	2.8	0.9	1.5	1.3	-0.2	-0.1	-0.2	-0.4	-0.4	2.8
30	1.4	-----	2.3	0.9	2.9	1.1	-0.2	-0.1	-0.2	-0.4	-0.4	2.6
31	1.4	-----	2.1	-----	3.2	-----	-0.2	-0.2	-----	-0.4	-----	2.6

DAILY RIVER STAGES.

303

Ohio River system—Monongahela River, Fairmont, W. Va.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.6	1.2	2.0	6.6	1.7	1.2	2.0	9.5	0.3	7.7	1.3	5.0
2	1.7	3.5	2.2	4.7	2.8	1.0	1.5	6.3	0.3	5.4	1.2	3.1
3	1.5	5.8	2.0	3.8	3.1	0.9	1.0	5.8	0.2	4.1	1.0	1.7
4	1.5	5.7	1.7	3.2	2.5	0.7	0.8	4.7	0.2	3.3	1.0	1.4
5	2.0	6.3	1.4	2.7	2.6	0.5	0.6	3.7	0.2	2.7	1.2	1.3
6	2.0	5.2	1.3	2.1	2.2	0.4	1.0	2.8	0.3	2.0	6.5	1.2
7	2.0	6.3	1.2	2.0	1.8	0.2	2.2	1.5	0.3	2.0	5.3	1.2
8	1.7	5.3	1.5	1.8	1.3	0.1	1.8	1.2	0.3	1.8	4.2	1.1
9	1.7	4.0	3.4	1.7	1.1	0.0	1.6	1.0	0.3	1.5	3.6	5.0
10	1.7	3.5	2.8	1.7	1.0	0.3	2.7	0.7	0.3	1.3	3.1	8.6
11	1.7	3.0	2.4	1.7	1.0	0.4	2.7	0.6	0.3	1.2	2.4	5.5
12	1.4	2.8	2.2	3.1	0.8	0.5	2.0	0.3	0.3	1.0	2.0	3.8
13	1.1	2.2	2.1	3.1	0.7	0.6	1.5	0.7	0.2	1.0	2.0	2.6
14	1.0	4.4	2.0	2.7	0.5	0.6	1.0	0.5	0.2	0.8	1.8	2.4
15	1.0	7.8	1.7	2.3	0.3	0.7	4.0	0.3	0.2	3.2	1.7	2.1
16	1.0	4.6	2.0	2.0	0.5	0.9	13.2	0.2	0.2	3.4	1.5	2.0
17	0.9	3.3	4.1	1.7	0.3	0.8	13.8	0.1	0.4	2.5	1.4	3.3
18	0.8	2.3	5.8	1.4	0.1	0.8	7.4	0.0	1.0	2.3	1.3	2.7
19	0.8	1.8	5.5	1.1	0.3	1.5	4.2	-0.2	1.0	2.0	1.2	3.0
20	0.7	1.5	14.0	1.1	0.4	1.2	2.3	-0.3	1.0	1.8	1.2	3.0
21	0.7	1.3	8.1	1.0	0.5	1.0	2.0	-0.3	1.0	2.0	1.2	2.6
22	1.0	1.3	5.9	1.0	0.7	0.6	18.6	-0.3	0.9	2.0	1.4	2.3
23	1.4	1.2	7.3	1.0	1.8	1.6	20.8	-0.3	0.9	1.8	3.9	2.3
24	2.4	1.2	5.7	0.9	2.2	2.9	12.3	-0.4	0.9	4.3	3.7	2.0
25	3.9	1.2	4.1	0.9	1.9	3.5	28.2	-0.4	0.7	7.0	3.2	1.6
26	4.0	1.5	5.0	2.4	1.9	3.5	16.6	-0.3	0.6	4.8	2.6	1.5
27	3.1	2.1	6.8	2.2	2.0	3.4	9.3	0.5	0.6	3.5	2.3	1.3
28	2.3	2.2	5.3	1.8	1.9	2.9	4.8	0.4	0.5	2.6	2.1	1.3
29	1.9	2.0	4.3	1.6	3.2	2.9	5.5	0.3	0.5	2.0	8.2	1.3
30	1.6	-----	5.2	1.3	2.2	2.8	5.1	0.3	3.3	1.8	8.5	1.5
31	1.3	-----	7.8	-----	1.5	-----	18.0	0.3	-----	1.6	-----	1.8

1897.

1	1.9	1.8	2.7	2.8	0.8	0.3	0.4	2.1	0.0	-0.6	-0.7	1.9
2	1.9	1.8	2.1	2.2	1.3	0.1	0.4	1.6	-0.2	-0.6	-0.7	1.3
3	1.8	2.0	2.0	1.9	4.6	0.1	4.1	1.0	-0.3	-0.6	-0.7	1.1
4	1.7	4.1	3.2	1.7	4.6	-0.1	2.7	0.9	-0.4	-0.6	-0.7	1.1
5	2.3	3.8	4.5	2.2	3.7	-0.1	2.0	3.0	-0.4	-0.6	-0.7	10.1
6	3.2	3.6	5.0	3.8	3.8	-0.2	1.2	2.2	-0.4	-0.6	-0.7	10.5
7	2.8	11.8	4.2	3.4	3.9	-0.2	1.0	2.0	-0.4	-0.6	-0.7	5.2
8	2.6	10.7	3.7	2.8	3.1	-0.2	1.0	1.5	-0.5	-0.6	-0.7	3.2
9	2.0	7.0	3.0	4.0	2.5	-0.2	1.7	0.9	-0.5	-0.6	-0.7	2.5
10	1.8	5.2	2.7	8.1	1.9	-0.2	1.6	0.5	-0.5	-0.7	-0.6	2.0
11	1.7	4.0	2.5	5.6	1.9	-0.1	1.3	4.8	-0.6	-0.7	2.5	1.6
12	1.5	3.5	2.3	4.0	4.5	0.0	1.0	2.3	-0.6	-0.7	1.6	1.3
13	1.4	8.0	2.0	3.2	6.7	0.0	1.8	1.2	-0.7	-0.7	1.5	1.3
14	1.4	7.1	1.8	2.8	15.1	0.8	2.3	0.9	-0.7	-0.7	1.3	1.2
15	1.3	4.8	1.8	4.1	10.3	3.7	2.1	0.7	-0.7	-0.7	1.4	4.9
16	1.3	4.1	1.7	5.2	4.9	2.6	1.8	0.4	-0.7	-0.7	1.5	9.6
17	1.8	4.0	1.7	4.2	3.3	2.9	1.3	0.2	-0.7	-0.7	1.5	5.3
18	3.6	3.2	1.6	3.3	2.8	3.0	1.0	0.2	-0.7	-0.7	1.9	4.1
19	4.4	2.8	3.8	2.8	2.3	3.0	0.7	0.1	-0.7	-0.7	1.8	5.0
20	3.4	2.3	5.8	2.4	2.0	3.3	2.0	0.0	-0.7	-0.7	1.6	4.2
21	3.0	4.5	5.6	2.1	1.8	4.1	1.7	0.0	-0.7	-0.7	1.5	6.1
22	2.8	15.0	5.0	1.8	1.5	4.4	1.9	0.0	-0.6	-0.7	1.2	8.8
23	2.8	27.8	4.6	1.5	1.3	3.0	6.1	-0.1	-0.6	-0.7	1.2	5.9
24	2.6	18.0	4.4	1.3	1.1	1.9	3.2	-0.1	-0.6	-0.7	1.3	4.0
25	2.3	9.0	5.9	1.2	1.2	1.6	2.3	0.6	-0.6	-0.7	1.3	2.8
26	2.1	4.0	5.8	1.1	1.2	1.3	2.0	0.4	-0.6	-0.7	1.3	2.0
27	1.8	3.5	5.4	1.1	1.1	1.1	2.2	0.4	-0.6	-0.7	2.7	1.7
28	1.8	3.0	5.0	1.0	1.0	0.6	2.5	0.3	-0.6	-0.7	6.0	1.5
29	1.8	-----	4.7	1.0	1.0	0.3	3.1	0.3	-0.6	-0.7	3.8	1.3
30	1.8	-----	4.2	0.9	0.9	0.4	3.0	0.1	-0.6	-0.7	2.7	1.2
31	1.8	-----	3.6	-----	0.6	-----	2.5	0.1	-----	-0.7	-----	1.8

DAILY RIVER STAGES.

Ohio River system—Monongahela River, Fairmont, W. Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.4	2.2	1.7	5.8	2.0	0.8	0.3	1.0	0.0	0.0	1.4	1.8
2	4.3	1.8	1.5	4.4	1.5	0.5	0.2	1.0	0.0	0.0	1.4	2.2
3	3.6	1.6	1.4	3.8	1.3	0.4	0.2	1.1	-0.2	0.0	1.3	2.0
4	3.3	1.5	1.3	3.1	1.2	0.3	0.0	1.6	-0.2	0.0	1.2	1.8
5	2.7	1.3	1.2	2.7	1.1	0.3	0.0	6.9	0.0	0.0	1.1	4.7
6	2.4	1.3	1.2	2.2	1.1	0.1	0.9	8.5	0.0	0.0	1.5	5.4
7	5.1	1.3	1.1	2.0	1.4	0.0	0.9	3.9	0.8	0.0	2.2	4.2
8	5.5	1.2	1.1	2.3	5.4	-0.2	0.8	2.0	2.0	0.0	2.0	3.2
9	4.0	2.3	1.0	2.3	5.5	-0.3	0.4	6.2	1.7	0.5	1.7	2.7
10	11.2	3.0	1.0	2.3	4.0	-0.3	0.2	10.3	1.5	0.3	1.5	2.4
11	14.1	3.5	1.0	2.3	3.1	-0.2	0.1	14.9	1.4	0.3	6.1	2.1
12	8.0	4.6	1.0	2.2	2.5	-0.2	0.0	12.0	1.2	0.3	6.0	2.0
13	6.8	4.1	1.0	2.2	2.3	0.0	0.0	13.5	1.1	0.3	4.2	2.0
14	5.8	3.5	1.0	2.2	1.5	2.2	-0.2	6.2	1.0	0.3	3.1	2.0
15	4.7	2.9	1.0	2.7	1.3	0.7	-0.3	3.7	0.8	0.3	2.9	2.0
16	13.8	3.1	1.3	9.0	3.6	0.5	-0.3	2.4	0.7	0.5	2.5	1.8
17	10.0	2.9	5.6	7.9	15.1	1.0	-0.3	1.5	0.4	0.6	2.0	1.8
18	5.8	2.7	11.0	4.8	6.7	0.8	0.7	1.0	0.3	1.0	2.0	2.7
19	4.0	6.6	6.2	3.4	4.3	0.7	0.3	1.6	0.1	3.2	2.0	5.9
20	3.3	5.8	4.2	3.1	3.1	1.1	1.8	4.9	0.1	4.3	5.5	8.5
21	3.2	7.8	7.3	2.7	2.4	1.3	1.7	3.6	0.1	2.7	6.8	10.0
22	2.7	7.2	11.2	2.0	1.8	1.3	1.7	2.3	0.1	11.0	4.6	8.2
23	11.0	4.9	7.1	1.7	5.8	1.2	1.5	1.3	0.1	10.1	3.3	5.5
24	10.5	3.7	8.4	2.7	4.1	1.0	1.2	1.0	0.1	7.2	3.0	5.1
25	5.8	3.1	18.4	11.3	3.4	0.6	1.2	0.8	0.1	3.5	2.8	4.2
26	6.2	2.7	10.6	12.6	2.9	0.4	1.0	0.7	0.1	2.6	2.4	3.7
27	6.1	2.2	5.4	8.9	2.2	0.2	1.5	0.6	0.1	2.1	2.3	3.1
28	4.5	2.0	3.9	5.3	1.8	0.1	1.4	0.5	0.1	2.0	2.0	2.3
29	3.4	-----	7.8	3.7	1.2	0.5	1.2	0.3	0.1	1.7	1.8	2.0
30	2.7	-----	15.9	2.9	0.8	0.4	1.1	0.3	0.0	1.5	1.8	1.8
31	2.4	-----	8.5	-----	0.8	-----	1.0	0.2	-----	1.5	-----	1.7

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.7	2.0	5.0	4.9	1.0	1.0	2.0	1.8	0.2	0.6	0.2	0.9
2	1.6	1.7	3.8	3.4	1.0	2.6	1.6	1.8	0.2	0.5	1.1	1.0
3	1.6	1.7	3.2	3.2	1.0	3.0	1.2	1.2	0.2	0.5	1.3	1.2
4	2.5	13.5	3.2	2.7	1.1	2.4	1.0	0.9	0.2	0.4	1.3	1.0
5	6.8	11.6	14.0	2.3	1.0	1.8	0.8	0.9	0.2	0.4	1.2	1.0
6	6.4	6.5	14.5	2.0	1.0	1.4	0.7	1.2	0.2	0.3	1.2	1.0
7	20.3	4.7	7.3	1.7	1.0	1.1	0.7	2.2	0.2	0.3	1.1	0.9
8	10.8	3.8	4.8	4.2	1.5	0.7	0.7	1.4	0.4	0.3	1.0	0.9
9	5.5	3.2	3.8	4.7	6.9	0.6	0.9	0.8	0.6	0.3	1.0	0.8
10	4.0	2.8	4.9	4.4	6.0	0.6	0.9	0.6	0.6	0.3	0.8	0.8
11	2.8	2.5	5.4	3.8	4.2	3.7	0.7	0.6	0.7	0.3	0.8	0.8
12	2.7	2.5	5.0	3.2	5.2	2.8	0.6	0.7	0.7	0.2	0.6	1.1
13	2.7	2.5	3.6	2.8	5.1	2.2	0.5	0.7	0.8	0.2	0.6	3.6
14	7.2	2.3	2.8	2.5	3.9	1.8	0.5	0.5	0.8	0.2	0.6	4.7
15	8.7	2.0	2.2	2.1	3.4	4.8	0.7	0.4	0.6	0.2	0.5	3.6
16	5.9	2.0	2.0	1.9	3.0	4.2	0.7	0.4	0.6	0.2	0.5	2.8
17	4.8	2.0	1.8	1.8	5.5	3.5	1.0	0.3	0.5	0.2	0.4	2.2
18	3.9	4.8	1.7	1.6	6.2	2.7	1.9	0.3	0.4	0.2	0.4	2.0
19	3.6	11.0	1.9	1.6	7.1	1.8	2.2	0.2	0.4	0.2	0.4	1.6
20	3.3	9.8	5.9	1.5	4.4	1.2	1.6	0.2	0.4	0.2	1.5	4.1
21	2.8	10.5	5.9	1.5	3.0	1.5	1.6	0.2	0.5	0.2	2.2	5.5
22	2.4	9.6	4.8	1.4	2.3	2.2	1.3	0.2	0.7	0.2	1.7	4.1
23	2.2	8.2	4.1	1.2	1.8	1.8	1.0	0.2	0.7	0.2	1.5	3.2
24	2.0	5.8	4.3	1.1	1.5	1.2	0.8	0.2	0.6	0.2	2.0	3.0
25	8.4	4.1	3.7	1.4	1.3	1.0	0.7	0.2	0.5	0.2	1.5	6.0
26	7.6	3.5	3.6	1.2	1.1	1.5	1.0	0.2	0.5	0.1	1.2	4.8
27	5.2	7.1	3.0	1.1	1.0	1.3	0.9	0.2	0.6	0.1	1.1	3.7
28	4.7	7.3	3.2	1.1	0.8	1.0	0.8	0.6	0.6	0.1	1.0	3.0
29	4.1	-----	16.0	1.1	0.6	1.0	0.6	0.6	0.6	0.1	1.0	2.4
30	2.8	-----	10.7	1.0	0.6	1.8	1.2	0.4	0.7	0.2	1.0	2.0
31	2.5	-----	6.1	-----	0.6	-----	3.0	0.3	-----	0.2	-----	2.0

DAILY RIVER STAGES.

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*Ohio River system—Monongahela River, Morgantown, W. Va.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.0	7.6	8.3	12.3	7.5	7.7	8.2	15.2	6.8	12.7	7.5	11.1
2	6.9	9.5	8.3	10.6	8.5	7.5	7.7	11.6	6.8	11.2	7.5	9.7
3	6.9	11.1	8.3	9.8	8.9	7.4	7.5	10.8	6.7	10.0	7.4	8.9
4	Frozen.	11.3	8.0	9.3	8.6	7.3	7.3	10.4	6.7	9.0	7.3	8.4
5		11.9	7.8	8.7	8.4	7.1	7.3	9.6	6.7	8.5	7.2	8.1
6		10.9	7.8	8.4	8.4	7.0	7.2	8.7	7.7	7.9	9.8	7.9
7		11.4	7.7	8.3	8.2	7.0	7.9	8.1	7.4	7.7	11.3	7.8
8		11.4	7.7	8.1	7.8	7.0	8.1	7.8	7.0	7.5	9.5	7.7
9		10.0	9.0	8.0	7.6	7.0	8.1	7.6	6.9	7.3	8.5	9.1
10		9.6	9.0	8.0	7.5	7.0	7.8	7.5	6.8	7.2	8.3	13.2
11		9.4	8.5	8.0	7.5	7.3	8.6	7.5	6.8	7.1	8.0	11.7
12		9.0	8.5	8.8	7.3	7.3	8.0	7.3	6.8	7.0	7.9	9.9
13		8.6	8.2	9.2	7.2	7.4	7.7	7.4	6.8	7.0	7.8	9.1
14		10.0	8.0	8.9	7.1	7.5	7.4	7.4	6.8	7.0	7.8	8.6
15		12.7	7.8	8.5	7.0	7.5	9.2	7.3	6.8	7.3	7.9	8.3
16		10.9	8.0	8.2	7.0	7.5	13.6	7.1	6.9	9.5	7.9	8.2
17		9.6	8.0	8.0	7.2	7.6	16.8	7.1	6.8	8.7	7.7	8.5
18		8.4	11.5	7.8	7.0	7.6	13.1	7.0	7.2	8.1	7.7	8.8
19		8.4	10.7	7.7	7.0	7.6	9.8	7.0	7.5	7.8	7.6	8.6
20		Frozen.	17.7	7.6	7.3	7.6	8.7	6.9	7.3	7.8	7.5	8.5
21			14.0	7.5	7.5	7.3	8.1	6.8	7.2	8.1	7.5	8.5
22	7.6		11.6	7.4	7.5	7.3	14.2	6.7	7.2	8.1	7.5	8.3
23	7.8		13.0	7.4	8.1	7.4	23.6	6.7	7.1	7.8	8.8	8.2
24	8.4		11.6	7.4	8.1	8.9	17.8	6.8	7.1	9.6	9.7	8.1
25	9.6		10.2	7.4	8.0	9.3	29.9	6.8	7.0	12.7	9.1	7.8
26	9.9		10.6	7.8	8.0	9.3	20.8	6.8	7.0	10.6	8.7	7.5
27	9.3		12.4	8.3	8.2	9.1	15.1	7.2	7.0	9.2	8.3	7.5
28	8.6	8.3	11.4	8.0	8.0	8.8	11.2	7.2	7.0	8.5	8.3	7.4
29	7.9	8.3	10.4	7.7	9.6	8.7	12.1	7.1	6.9	8.1	12.2	7.4
30	7.9		10.9	7.7	8.5	8.7	11.0	7.0	8.7	7.8	13.9	7.4
31	7.7		12.5		8.1		21.0	6.9		7.7		7.6

1897.

1	7.9	Frozen.	8.4	8.4	7.3	7.1						
2	8.0		8.2	8.2	7.9	7.1						
3	8.0		8.0	8.1	10.2	7.0						
4	7.9		9.1	7.9	10.4	7.1						
5	8.0		10.5	8.0	9.7	7.1						
6	8.6		11.0	9.0	9.4	7.0						
7	8.8	16.6	10.3	9.4	9.8	7.0						
8	8.3	16.1	9.5	8.9	9.6	7.0						
9	8.3	12.5	9.0	9.2	8.5	7.1						
10	8.1	11.1	8.7	13.6	8.2	7.1						
11	7.9	10.2	8.5	11.7	8.0	7.0						
12	7.7	9.6	8.3	10.1	8.2	7.0						
13	Frozen.	12.9	8.1	9.3	12.0	7.0						
14	7.5	13.0	8.0	8.8	18.2	7.4						
15	7.5	10.9	8.0	9.6	15.3	8.0						
16	7.6	10.1	7.9	11.1	10.9	8.7						
17	7.8	9.7	7.9	10.3	9.6	8.8						
18	8.7	9.5	7.9	9.5	8.9	8.9						
19	10.0	8.9	10.0	8.9	8.4	9.1						
20	9.5	8.5	12.2	8.5	8.1	8.7						
21	9.1	8.9	11.7	8.2	7.9	8.7						
22	9.0	16.0	10.4	8.0	7.7	10.2						
23	8.9	29.0	9.7	7.8	7.6	8.9						
24	8.7	23.9	9.5	7.7	7.6	8.1						
25	Frozen.	14.7	10.6	7.6	7.6	7.8						
26		10.7	10.5	7.6	7.6	7.6						
27		9.6	10.0	7.5	7.6	7.4						
28		8.8	9.6	7.5	7.4	7.3						
29			9.2	7.4	7.3	7.1						
30			8.8	7.4	7.2	7.0						
31			8.6		7.2							

DAILY RIVER STAGES.

Ohio River system—Monongahela River, Greensboro, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.1	7.9	8.5	14.2	7.6	8.2	8.4	15.0	6.8	14.2	7.7	11.8
2	8.1	10.3	8.7	12.4	8.2	8.0	8.0	12.4	6.7	10.8	7.6	10.0
3	8.1	12.0	8.5	11.0	9.0	7.8	7.9	10.6	6.5	10.5	7.6	9.4
4	8.0	12.2	8.2	10.2	8.8	7.4	7.6	10.0	6.5	9.8	7.5	8.8
5		12.4	7.8	9.6	8.5	7.1	7.5	9.6	6.5	9.4	7.5	8.5
6	7.8	11.4	7.6	9.0	8.4	7.0	7.5	9.0	6.6	8.8	11.0	8.0
7	7.8	12.0	7.6	8.5	8.3	7.0	8.0	8.5	6.7	8.3	12.0	7.8
8	7.8	11.4	7.6	8.2	8.0	7.0	7.9	8.0	6.7	8.0	10.5	7.7
9	7.8	10.5	9.0	8.0	7.6	7.0	7.7	8.0	6.5	7.8	9.8	8.7
10	7.7	10.5	8.8	8.0	7.5	7.0	9.0	8.0	6.4	7.5	8.7	13.0
11	7.6	9.6	8.7	8.0	7.4	7.2	8.5	7.8	6.1	7.4	8.5	12.2
12	7.6	9.0	8.7	8.7	7.1	7.3	8.0	7.5	6.0	7.4	8.2	11.0
13	7.5	8.8	8.5	9.6	7.0	7.1	7.8	7.2	6.3	7.4	8.1	9.0
14	7.4	11.1	8.3	9.6	7.0	7.5	7.5	7.2	6.0	7.4	8.0	8.8
15	7.4	13.5	8.2	9.4	7.0	7.5	8.0	7.2	6.0	7.8	8.0	8.5
16	7.4	11.3	8.2	8.9	7.9	7.5	11.5	7.2	6.8	9.0	8.0	8.2
17	7.2	9.6	8.2	8.6	6.8	7.5	14.2	7.2	6.8	8.7	7.8	8.0
18	7.1	9.0	8.2	8.4	6.7	7.5	13.0	7.0	6.7	8.5	7.7	8.0
19	7.0	8.8	10.5	8.2	6.7	7.5	10.5	6.9	7.4	8.5	7.7	8.0
20	7.0	8.2	17.7	7.8	6.7	7.5	8.9	6.9	7.4	8.2	7.7	7.8
21	7.0		13.5	7.6	7.0	7.5	8.5	6.9	7.3	8.7	7.6	7.7
22	7.6	7.8	11.5	7.5	8.0	7.4	14.0	6.8	7.5	8.8	7.6	7.7
23	7.8	7.4	13.5	7.4	8.4	7.4	24.5	6.8	7.5	8.2	8.7	7.6
24	8.2	7.4	11.8	7.4	8.4	7.5	15.6	6.8	7.4	9.5	9.8	7.6
25	9.3	7.4	10.5	7.4	8.2	9.0	34.4	6.8	6.7	13.0	9.5	7.6
26	10.2	7.4	10.6	8.3	8.0	9.4	22.0	7.0	6.5	11.6	8.8	7.6
27	9.8	7.4	13.2	8.9	8.3	9.8	14.5	7.3	6.4	10.5	8.6	7.6
28	8.8	8.1	12.0	8.3	8.3	9.0	12.7	7.3	6.4	9.0	8.5	7.6
29	8.1	8.1	11.4	8.0	9.8	8.8	12.8	7.2	6.4	8.3	11.5	7.6
30	7.9		14.4	7.8	9.0	8.7	12.0	7.0	8.4	7.8	13.0	7.6
31	7.9		16.0		8.5		21.4	6.9		7.7		7.5

1897.

1	8.0	7.5	10.2	8.5	7.6	7.6	7.1	8.3	7.3	5.8	4.5	8.5
2	8.5	7.5	9.4	8.0	8.0	7.6	7.1	7.9	7.0	5.8	4.8	7.9
3	8.3	7.5	9.3	8.0	11.0	7.6	8.5	7.6	6.9	5.8	4.8	7.7
4	8.1	7.5	9.0	7.8	11.0	7.8	8.6	7.5	6.8	5.8	4.8	7.7
5	8.0	8.0	11.0	7.8	10.8	7.9	8.2	9.8	6.8	5.8	4.8	11.8
6	9.0	8.5	12.0	9.0	10.8	7.8	7.8	9.3	6.7	5.6	5.2	14.0
7	9.4	14.5	11.8	9.4	10.6	7.7	7.6	8.9	6.6	5.6	5.2	11.8
8	9.0	15.0	11.0	9.0	10.0	7.7	8.0	8.4	6.5	5.6	5.2	10.0
9	8.8	13.0	9.8	9.3	9.8	7.7	8.0	7.8	6.5	5.5	5.8	8.8
10	8.5	12.4	9.4	13.0	9.0	7.7	8.0	7.7	6.4	5.5	9.4	8.5
11	8.3	11.8	9.0	12.0	8.5	7.7	7.9	7.6	6.4	5.5	8.8	8.0
12	8.3	10.8	8.5	10.8	8.5	7.7	7.8	8.5	6.3	5.4	8.7	7.8
13	8.1	15.5	8.3	10.0	11.3	7.7	7.8	8.0	6.3	5.4	8.0	7.7
14	8.0	14.0	8.0	9.5	17.0	7.8	8.2	7.6	6.2	5.4	7.7	7.7
15	8.0	13.8	8.0	10.0	14.5	7.9	8.1	7.5	6.2	5.2	7.9	9.3
16	8.0	10.7	8.0	11.0	12.0	8.7	7.9	7.4	6.1	5.2	8.0	15.0
17	8.0	10.7	8.0	10.7	10.8	8.9	7.8	7.4	6.0	5.1	8.3	12.0
18	9.0	10.1	8.0	10.0	9.5	8.9	7.6	7.4	6.4	5.0	8.3	10.3
19	10.5	10.0	10.0	9.5	8.7	9.2	7.8	7.3	7.0	5.0	8.2	10.3
20	10.5	9.5	12.8	9.0	8.2	9.0	8.0	7.3	6.7	5.0	7.9	10.5
21	10.0	9.2	12.8	8.7	8.0	9.1	8.8	7.2	6.5	5.0	7.8	11.8
22	9.6	16.5	11.8	8.3	8.0	10.2	8.7	7.1	6.3	4.8	7.8	15.2
23	9.4	33.0	11.3	8.0	7.8	9.2	10.3	7.1	6.2	4.8	7.7	13.2
24	9.0	24.5	11.0	8.0	7.8	8.5	9.8	7.1	6.0	4.6	7.7	10.3
25	Frozen.	15.8	11.5	7.8	7.6	8.2	8.8	7.1	6.0	4.5	7.7	9.8
26	8.7	12.8	11.6	7.7	7.6	7.8	8.5	8.0	6.0	4.5	7.7	8.8
27	8.5	11.4	11.4	7.6	7.6	7.6	8.3	7.7	6.0	4.3	8.0	8.2
28	8.0	10.8	10.8	7.6	7.6	7.4	8.3	7.6	6.0	4.3	11.6	8.1
29	8.0		9.8	7.6	7.6	7.3	8.8	7.5	5.8	4.5	10.5	8.0
30	7.8		9.0	7.6	7.6	7.2	9.2	7.5	5.8	4.3	9.8	7.9
31	7.6		8.7		7.6		8.8	7.3		4.3		7.8

DAILY RIVER STAGES.

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Ohio River system—Monongahela River, Greensboro, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.5	8.2	8.2	11.2	8.3	7.5	7.1	7.4	6.9	6.5	7.5	7.0
2	10.7	Frozen.	8.2	10.0	8.1	7.5	7.1	7.1	6.7	6.5	7.4	7.3
3	9.2	7.8	8.0	9.8	7.9	7.5	7.0	7.1	6.6	6.5	7.4	7.6
4	8.8	7.5	8.0	9.0	7.8	7.5	6.7	7.3	6.4	6.5	7.3	7.6
5	8.5	7.3	8.0	8.9	7.7	7.4	6.5	8.7	6.4	6.5	7.3	9.2
6	8.2	7.3	8.0	8.5	7.7	7.2	6.5	12.5	6.8	6.7	7.3	10.0
7	10.0	7.3	7.9	8.2	8.0	7.0	7.7	9.7	6.9	6.7	8.1	9.7
8	11.0	7.3	7.8	8.2	10.1	6.9	7.4	8.3	8.0	7.8	8.0	9.1
9	10.4	7.3	7.8	8.1	11.0	6.8	7.0	11.0	8.0	8.0	7.6	8.5
10	12.4	8.0	7.7	8.1	9.9	6.7	6.8	14.2	7.8	7.8	7.4	8.0
11	17.4	9.3	7.7	8.3	9.2	6.7	6.4	20.1	7.6	7.2	12.0	7.7
12	14.0	10.5	7.7	8.3	8.5	6.7	6.4	14.5	7.2	7.0	12.0	7.6
13	13.5	10.5	7.7	8.3	8.2	7.0	6.4	14.5	6.9	7.0	10.5	7.6
14	12.4	10.0	7.7	8.3	8.1	7.9	6.3	12.0	6.8	7.0	9.5	Frozen.
15	11.0	9.2	7.7	9.6	8.0	7.7	6.3	9.4	6.5	7.0	9.1	7.6
16	16.5	9.0	7.7	12.7	9.2	7.5	6.3	8.5	6.5	7.0	9.0	7.6
17	14.5	9.0	8.7	13.1	18.7	7.3	6.3	8.0	6.5	7.3	8.8	7.6
18	11.8	8.8	15.5	10.9	12.6	7.5	7.0	7.8	6.5	7.3	8.2	7.8
19	10.2	11.3	13.0	9.9	10.2	7.4	8.0	7.8	6.5	9.0	8.1	9.6
20	9.5	11.8	11.0	9.2	9.0	7.6	7.8	10.2	6.4	10.6	10.0	11.7
21	9.8	12.3	12.4	8.8	8.6	8.1	7.7	9.8	6.4	9.0	11.9	15.5
22	9.6	13.0	16.0	8.4	8.2	7.7	7.6	8.5	6.3	16.0	10.5	13.2
23	13.0	11.2	14.0	8.1	10.2	7.6	7.5	7.9	6.3	15.0	9.5	11.0
24	15.4	10.0	14.5	8.1	9.7	7.5	7.4	7.7	6.3	11.0	9.2	11.7
25	12.0	9.0	21.2	12.3	9.4	7.0	7.3	7.7	6.3	9.6	8.7	10.5
26	11.7	8.5	16.0	15.5	8.9	6.9	7.3	7.6	6.3	8.8	8.0	10.5
27	12.0	8.2	12.0	13.8	8.3	6.8	7.1	7.5	6.5	8.5	7.8	9.0
28	10.8	8.2	10.4	10.9	8.2	6.5	7.6	7.2	6.5	8.5	7.0	8.7
29	10.0		11.0	9.4	8.0	7.0	7.6	7.0	6.5	8.2	7.0	8.2
30	9.2		18.0	8.9	7.7	7.1	7.6	7.0	6.5	7.7	7.0	8.1
31	8.8		14.0		7.6		7.5	7.0		7.5		8.0

1899.

1	8.0	Frozen.	10.5	11.0	7.8	7.5	8.5	8.3	6.4	6.8	6.5	7.2
2	Frozen.	7.5	10.4	10.4	7.6	8.5	8.2	8.0	6.4	6.7	8.0	7.0
3	8.0	7.5	10.1	9.7	7.6	8.4	8.0	7.9	6.4	6.6	8.2	7.2
4	8.9	15.7	10.1	9.2	8.0	8.0	7.6	7.3	6.7	6.5	8.1	7.1
5	11.9	16.0	15.8	8.8	8.0	8.0	7.6	7.0	6.5	6.5	7.8	7.1
6	12.5	12.8	19.0	8.5	7.9	7.9	7.4	7.4	6.4	6.5	7.6	7.1
7	22.0	10.7	14.0	8.2	7.8	7.8	7.0	7.3	6.4	6.5	7.3	7.0
8	15.5	10.0	11.2	9.8	8.0	7.6	7.0	7.3	6.4	6.5	7.0	7.0
9	11.8	Frozen.	10.0	11.0	13.0	7.5	8.0	7.1	6.9	6.5	6.7	7.0
10	10.2	9.4	10.3	10.5	11.8	7.3	7.0	7.0	7.0	6.4	6.7	7.0
11	9.4	9.2	10.5	10.0	10.5	8.0	7.0	6.8	9.2	6.4	6.6	7.0
12	9.0	9.0	10.4	9.7	8.9	8.5	6.9	6.7	8.3	6.4	6.6	8.1
13	8.8	9.0	10.2	9.2	11.0	8.2	6.8	6.6	7.9	6.4	6.8	12.2
14	13.3	8.2	9.6	9.0	9.8	8.0	6.8	6.5	7.5	6.4	7.0	10.7
15	14.9	7.8	9.0	8.8	9.2	10.5	6.8	6.5	7.3	6.3	7.0	9.3
16	12.8	7.8	8.9	8.8	8.8	10.4	6.8	6.5	7.0	6.3	7.0	8.8
17	11.2	7.8	8.8	8.5	9.0	8.5	6.8	6.5	6.8	6.3	6.8	8.5
18	10.6	8.4	8.5	8.5	14.8	8.1	8.7	6.5	6.8	6.3	6.8	8.0
19	9.9	10.7	8.8	8.4	14.9	8.1	8.5	6.4	6.6	6.3	7.0	7.9
20	9.4	13.2	11.8	8.5	11.3	8.0	8.2	6.3	6.6	6.2	8.1	9.7
21	9.1	14.7	11.6	8.2	9.8	8.3	7.9	6.3	6.6	6.1	8.2	10.0
22	8.8	14.5	10.8	8.1	8.7	10.0	7.8	6.3	6.5	6.0	7.8	9.6
23	8.7	14.2	10.5	8.0	8.3	9.0	7.6	6.3	6.5	6.0	7.7	8.8
24	8.5	12.0	10.5	7.9	8.0	8.0	7.1	6.3	6.5	6.0	7.8	9.0
25	12.2	10.2	10.4	7.9	7.8	7.8	7.0	6.2	6.5	6.0	8.0	9.0
26	13.0	10.0	9.9	8.5	7.7	7.8	6.7	6.2	6.5	6.0	8.0	9.0
27	11.3	12.8	9.2	8.0	7.4	8.0	6.7	6.2	6.5	6.0	7.7	9.0
28	9.9	13.6	9.6	7.9	7.1	7.9	6.7	6.2	6.5	6.0	7.6	8.8
29	9.2		19.0	7.9	7.0	9.6	6.7	6.2	6.5	6.0	7.5	Frozen.
30	9.0		15.7	7.9	7.0	8.9	6.7	6.2	6.8	6.0	7.4	8.0
31	8.2		12.6		7.0		8.2	6.6		6.0		7.5

122.0 at 7 p. m.

DAILY RIVER STAGES.

Ohio River system—Monongahela River, Lock No. 4, Pennsylvania.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.8	7.6	8.3	16.8	7.7	7.4	9.0	24.0	5.9	17.9	7.5	14.1
2	9.9	8.9	8.9	14.0	7.8	7.0	8.4	15.6	5.9	14.6	7.3	11.3
3	9.8	14.0	8.8	13.0	8.9	6.8	7.8	13.0	5.8	12.6	7.0	9.9
4	9.6	14.2	8.1	11.5	8.9	6.5	7.5	12.5	5.8	10.8	7.0	9.0
5	9.4	14.7	7.8	10.1	8.2	6.4	7.5	11.0	5.7	9.3	7.0	8.3
6	9.2	14.0	8.3	9.4	8.2	6.3	7.9	9.6	6.2	8.5	9.0	8.0
7	9.2	14.0	7.2	9.0	8.0	6.0	8.9	8.4	7.0	8.0	14.8	7.8
8	9.0	14.0	7.4	9.0	7.4	6.0	8.9	7.9	7.9	7.6	11.7	7.5
9	9.0	12.0	8.8	8.5	7.2	6.0	8.5	7.7	8.0	7.2	9.7	8.1
10	9.0	10.6	9.8	8.2	6.9	6.1	8.5	7.5	7.9	7.1	8.7	14.7
11	9.0	10.0	9.0	8.2	6.7	6.8	9.7	7.3	7.9	6.9	8.3	15.0
12	8.9	9.4	8.5	9.0	6.5	7.5	8.9	7.0	7.8	6.8	8.3	12.0
13	8.8	8.9	8.2	10.4	6.4	7.7	8.1	7.0	7.8	6.7	8.1	10.5
14	8.6	10.8	8.0	10.5	6.3	7.7	7.8	7.0	7.8	6.7	8.0	9.3
15	8.4	15.9	7.7	10.2	6.3	8.0	7.5	6.8	7.8	7.0	8.0	8.7
16	8.3	14.0	7.5	9.4	6.2	8.2	11.7	6.8	7.9	8.6	7.9	8.5
17	8.3	11.5	7.8	8.9	6.1	8.1	18.9	6.8	8.0	9.3	7.8	8.5
18	8.3	9.7	11.0	8.2	6.3	8.1	17.3	6.4	8.0	8.5	7.6	8.7
19	8.3	9.0	11.2	7.9	5.9	8.1	12.0	6.3	8.5	7.9	7.5	8.7
20	8.3	8.2	20.5	7.8	6.0	8.1	9.7	6.2	8.9	7.5	7.4	8.5
21	8.5	8.0	18.6	7.4	6.5	7.9	9.0	5.9	8.9	8.0	7.3	8.4
22	9.0	7.5	14.6	7.4	7.2	7.7	10.5	5.8	8.6	9.5	7.4	8.1
23	8.4	7.3	16.1	7.2	7.7	7.6	29.9	5.8	8.6	8.3	8.2	8.0
24	8.3	7.3	14.5	7.0	7.9	8.3	25.0	5.8	8.5	9.3	10.3	7.8
25	10.6	7.3	12.4	7.0	7.8	9.5	38.0	6.0	8.3	14.6	10.0	7.6
26	11.4	7.6	12.4	7.9	7.5	10.4	31.0	6.1	8.1	13.2	9.2	7.4
27	10.7	7.8	16.0	9.0	7.6	10.8	21.6	6.3	7.9	10.7	8.7	7.1
28	9.8	8.0	15.0	8.3	7.9	10.5	24.0	6.3	7.8	9.3	8.5	7.1
29	8.8	8.2	13.0	7.9	8.8	9.7	18.0	6.3	7.6	8.6	13.1	7.1
30	8.1	-----	15.0	7.7	9.5	9.8	14.2	6.2	9.0	8.0	16.7	7.1
31	7.8	-----	17.9	-----	8.0	-----	25.3	6.0	-----	7.6	-----	7.5

1897.

1	7.7	6.7	9.2	8.7	6.8	6.5	6.4	9.2	7.6	7.2	4.7	9.3
2	8.1	6.7	8.8	8.5	7.7	6.5	6.4	8.6	7.6	7.2	4.6	8.2
3	8.4	7.0	8.7	8.1	11.9	6.5	6.5	8.1	7.6	7.4	4.6	7.6
4	8.2	7.2	9.5	7.8	13.0	6.6	8.7	7.8	7.1	7.4	4.6	7.2
5	8.5	8.6	12.3	7.8	11.6	6.7	7.8	10.2	7.0	7.2	4.6	8.0
6	9.3	9.6	15.2	8.7	11.0	6.6	7.1	11.0	7.0	7.0	4.5	20.6
7	9.9	16.8	13.9	10.6	11.8	6.5	6.9	10.0	6.9	6.9	4.4	15.6
8	9.2	19.0	12.2	9.8	10.8	6.5	7.0	9.0	6.5	6.8	4.4	11.6
9	8.5	15.5	10.8	9.9	9.6	6.7	7.1	8.4	6.2	6.9	4.6	9.7
10	8.2	12.8	10.0	17.0	8.8	6.7	7.2	8.0	6.0	6.6	7.1	8.7
11	8.0	11.3	9.9	15.8	8.4	6.5	8.8	7.9	5.9	6.5	10.3	8.0
12	7.8	11.0	9.8	12.5	8.1	6.5	8.9	8.6	5.8	6.3	10.2	7.7
13	7.5	17.5	9.3	10.8	12.8	6.5	8.7	9.0	5.5	6.2	9.5	7.4
14	7.2	17.0	8.7	9.7	19.7	6.5	9.1	8.3	5.4	6.2	9.2	7.3
15	7.1	14.7	8.5	10.7	20.6	6.9	9.0	8.0	5.2	6.1	9.2	7.8
16	7.2	13.7	8.5	14.3	14.6	8.7	9.2	7.6	5.0	6.0	9.9	16.5
17	7.5	13.3	8.1	12.7	11.3	9.5	8.9	6.9	5.0	5.8	9.9	15.0
18	8.0	12.3	8.0	11.0	9.8	9.2	8.7	6.6	4.9	5.7	10.3	11.8
19	10.8	11.0	9.2	10.0	8.9	9.2	8.7	6.5	4.8	5.6	10.1	11.8
20	10.8	10.3	14.7	9.2	8.2	9.3	8.9	6.2	5.5	5.5	9.6	11.7
21	9.9	10.0	15.0	8.6	7.9	9.0	9.6	6.0	6.5	5.5	9.3	11.0
22	9.8	16.0	13.3	8.1	7.6	10.5	10.0	5.9	6.7	5.4	9.0	17.8
23	9.5	36.0	12.7	7.7	7.3	9.8	9.6	5.9	6.6	5.4	8.8	15.5
24	9.1	36.0	12.0	7.6	7.1	8.5	12.0	5.9	6.8	5.2	8.7	12.6
25	9.5	23.0	13.4	7.5	7.2	7.6	10.0	6.0	6.9	5.2	8.7	10.3
26	9.0	14.0	12.8	7.3	7.2	7.4	9.5	6.7	7.0	5.0	8.9	8.9
27	7.7	11.9	11.7	7.3	7.1	7.0	9.2	8.6	7.0	5.0	9.2	8.5
28	6.9	10.3	10.8	7.1	7.1	6.8	8.9	8.6	7.0	4.9	13.5	8.2
29	6.7	-----	10.0	7.0	6.9	6.7	9.2	8.2	7.1	4.8	12.8	8.0
30	6.7	-----	9.6	6.9	6.7	6.5	10.0	8.2	7.1	4.7	10.6	7.6
31	6.7	-----	9.0	-----	6.6	-----	9.6	7.9	-----	4.7	-----	7.7

DAILY RIVER STAGES.

309

Ohio River system—Monongahela River, Lock No. 4, Pennsylvania—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.3	8.9	8.0	14.5	9.2	7.6	8.2	8.9	5.9	5.9	7.6	7.3
2	12.0	8.0	8.0	12.3	8.5	7.2	8.6	8.8	5.9	5.9	7.6	7.5
3	10.3	7.8	7.8	10.8	8.0	6.9	8.2	8.6	5.9	5.8	7.5	7.7
4	9.2	7.5	7.6	10.2	7.8	6.7	8.0	8.6	5.9	5.7	7.4	7.6
5	8.6	7.3	7.5	9.3	7.6	6.5	8.0	9.2	5.9	5.7	7.3	8.7
6	8.8	7.7	7.4	9.0	7.1	6.3	7.9	16.0	6.0	5.7	7.1	11.4
7	10.0	7.8	7.4	8.7	7.5	6.3	8.0	13.0	6.1	5.7	7.6	11.0
8	13.3	7.8	7.2	8.6	9.2	6.1	8.8	9.6	6.5	6.0	8.2	10.0
9	13.0	7.7	7.1	8.7	13.0	6.0	8.6	10.6	7.6	6.8	7.9	9.0
10	14.0	8.2	7.1	8.7	12.0	5.9	8.5	17.3	7.5	7.0	7.6	8.1
11	23.9	9.7	7.2	8.6	10.5	5.9	8.2	23.3	7.0	6.5	12.0	8.2
12	20.0	11.6	7.3	8.6	9.2	6.0	8.0	21.0	6.6	6.4	14.7	7.4
13	15.8	11.9	7.5	8.5	8.6	6.1	7.8	17.8	6.4	6.4	13.0	7.6
14	15.5	11.2	7.6	8.5	8.2	6.6	7.7	17.5	6.2	6.3	11.5	8.0
15	13.0	10.2	8.1	9.0	8.0	7.9	7.5	12.0	6.0	6.3	9.5	7.8
16	19.5	9.9	7.9	13.0	8.5	7.3	7.1	9.8	6.0	6.4	9.0	7.2
17	21.0	10.0	8.5	17.5	17.6	6.8	6.9	8.6	6.0	6.5	9.0	7.0
18	16.0	9.5	20.0	14.8	19.0	6.8	6.8	7.9	6.0	6.6	8.7	7.1
19	12.2	10.7	16.7	11.8	13.3	6.7	8.0	9.0	6.0	7.0	8.4	8.6
20	10.8	14.1	12.7	10.2	10.9	6.7	9.7	13.0	6.0	11.0	8.8	12.0
21	11.2	15.0	13.8	9.7	9.7	7.1	9.2	11.8	5.9	10.2	13.0	19.0
22	10.6	16.6	22.5	9.0	8.5	7.1	8.9	10.0	5.8	14.0	12.5	17.6
23	13.5	14.0	20.7	8.5	8.8	7.0	8.6	8.6	5.7	21.6	10.6	14.5
24	21.9	11.6	20.2	8.3	11.9	6.7	8.3	7.6	5.6	15.8	9.4	14.5
25	16.7	10.2	24.7	10.6	9.5	6.5	8.2	7.2	5.6	11.6	9.0	12.9
26	14.5	9.7	23.8	20.0	9.3	6.2	7.7	7.0	5.7	9.8	8.5	11.0
27	14.5	8.8	16.0	19.5	8.9	6.2	8.7	6.8	5.8	9.0	8.0	10.0
28	13.2	8.5	12.5	15.0	8.5	6.0	8.7	6.5	5.9	8.6	7.6	9.1
29	11.3	-----	12.0	11.8	8.0	6.7	8.8	6.4	6.0	8.5	7.5	8.5
30	10.0	-----	23.9	10.2	7.8	7.6	9.1	6.2	6.0	8.0	7.3	7.9
31	9.2	-----	20.7	-----	7.6	-----	9.1	6.0	-----	7.6	-----	7.7

1899.

1	8.0	8.2	14.5	13.0	7.6	7.1	8.9	10.6	6.1	8.5	6.1	8.9
2	8.0	8.0	12.5	12.0	7.5	7.7	8.4	9.6	9.0	8.5	8.0	8.9
3	7.8	8.1	11.8	10.9	7.5	9.2	7.6	9.2	8.7	8.5	10.0	8.9
4	8.0	11.5	11.5	10.0	8.0	9.0	7.2	8.8	8.5	8.3	9.7	8.9
5	11.6	22.0	14.0	9.3	8.1	8.4	6.9	8.7	8.6	8.1	9.5	8.9
6	15.0	17.5	26.9	8.9	7.9	7.8	6.7	8.9	8.5	8.0	9.1	8.9
7	23.5	13.3	20.0	8.3	7.6	7.4	6.7	9.0	8.3	8.0	8.9	8.9
8	23.0	11.0	14.6	9.5	7.8	7.0	6.8	9.2	8.0	7.9	8.7	8.8
9	15.6	9.8	11.7	12.5	12.0	7.0	8.0	9.0	8.7	7.8	8.6	8.9
10	12.4	9.2	11.2	12.0	14.5	6.9	7.7	8.7	9.7	7.8	8.6	9.0
11	10.4	8.8	13.0	11.0	12.6	7.3	7.3	8.5	8.6	7.8	8.4	9.0
12	9.6	8.0	12.6	10.2	10.9	9.3	7.0	8.2	11.0	7.9	8.4	9.2
13	9.2	8.0	11.8	9.9	12.5	8.7	6.2	8.1	8.9	7.9	8.6	14.0
14	13.5	8.0	10.8	9.6	11.3	8.1	6.5	7.9	8.0	7.8	8.5	13.8
15	19.5	8.0	9.8	9.0	10.3	9.0	7.1	7.7	7.5	7.8	8.4	11.5
16	16.0	8.0	9.2	8.9	9.7	11.5	7.9	7.2	7.0	7.8	8.4	10.5
17	13.5	8.1	9.1	8.9	9.2	10.5	9.2	7.1	6.6	7.7	8.5	9.5
18	12.0	8.5	8.9	8.7	15.5	9.0	10.5	7.2	6.5	7.7	8.4	9.0
19	11.0	11.5	8.9	8.6	19.5	8.2	10.5	7.0	6.3	7.5	8.4	8.8
20	10.5	15.6	12.7	8.5	15.0	7.7	10.3	6.8	6.2	7.4	9.3	9.5
21	9.7	18.6	14.0	8.1	11.7	7.5	9.7	6.6	6.1	7.2	10.0	12.5
22	9.0	18.5	13.0	7.9	10.0	10.0	9.2	6.2	6.1	7.0	9.8	12.0
23	8.9	18.7	11.9	7.6	9.0	9.5	8.9	6.0	6.3	7.0	9.5	10.5
24	8.5	15.6	11.9	7.5	8.2	8.2	8.6	5.8	6.6	6.9	9.7	9.5
25	11.2	12.5	11.6	7.2	8.0	7.9	8.5	5.7	7.2	6.5	9.5	11.5
26	16.3	10.6	10.5	8.9	7.6	7.4	8.3	5.6	7.5	6.5	9.8	12.9
27	14.2	14.7	10.0	8.4	7.4	7.6	8.2	5.9	7.6	6.4	9.5	11.0
28	11.9	17.0	9.5	8.0	7.2	7.5	8.3	6.0	7.7	6.2	9.5	9.5
29	10.2	-----	23.0	7.9	7.0	7.9	8.4	5.9	7.8	6.1	9.2	9.2
30	9.2	-----	23.0	7.8	7.1	9.2	8.3	6.0	8.3	6.0	9.0	8.8
31	8.5	-----	16.5	-----	7.0	-----	9.0	6.1	-----	5.9	-----	8.2

DAILY RIVER STAGES.

*Ohio River system (Monongahela River branch)—West Fork of Monongahela, Weston, W. Va.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.0	-0.6	0.0	0.0	-0.2	-0.6	0.0	2.0	-0.6	1.5	0.0	0.5
2	-0.3	-0.6	0.0	-0.5	1.8	-0.6	-0.4	3.0	-0.7	1.0	0.0	0.4
3	-0.6	1.0	0.0	-0.6	1.8	-0.6	-0.4	3.0	-0.7	0.5	0.0	0.3
4	-0.3	2.5	0.0	-0.7	-1.4	-0.3	-0.5	2.5	0.0	0.0	0.0	0.0
5	-0.6	1.5	0.0	-0.7	0.0	-0.6	0.0	1.5	0.0	0.0	2.0	0.0
6	Frozen.	0.4	0.0	0.0	0.0	-0.6	0.0	0.5	-0.3	0.0	3.5	0.0
7	-0.6	4.0	0.3	0.0	-0.2	-0.6	0.0	0.0	-0.3	-0.2	2.0	0.0
8	-0.6	1.0	0.0	-0.3	-0.5	-0.6	-0.3	0.0	-0.5	-0.3	2.0	0.0
9	-0.6	0.5	0.0	-0.4	-0.3	-0.6	0.0	0.0	-0.6	-0.3	2.0	6.9
10	-0.6	0.8	0.0	0.3	-0.5	-0.6	0.0	-0.3	-0.7	-0.3	0.5	3.7
11	-0.6	0.4	0.0	0.3	-0.5	-0.3	-0.3	0.0	-0.7	-0.3	0.0	2.5
12	-0.6	0.2	0.3	0.3	-0.6	-0.4	-0.4	0.0	-0.7	-0.3	0.0	0.5
13	-0.6	1.5	0.8	0.2	-0.6	-0.4	-0.3	-0.3	-0.7	0.0	0.0	0.0
14	-0.6	1.0	0.5	0.0	-0.7	-0.4	0.0	-0.3	-0.7	4.0	0.0	0.0
15	-0.6	0.1	0.5	0.0	-0.7	-0.4	0.5	-0.4	-0.7	3.0	0.0	0.0
16	-0.6	0.1	1.0	0.0	-0.7	-0.4	7.0	-0.5	-0.7	1.0	0.0	2.5
17	-0.6	0.0	4.0	-0.3	-0.8	-0.4	4.0	-0.5	0.0	0.5	0.0	2.0
18	-0.6	0.0	0.1	-0.3	-0.8	-0.4	2.0	-0.5	0.0	0.0	0.0	1.3
19	-0.3	0.0	4.5	-0.3	-0.5	-0.4	0.5	-0.6	-0.3	0.0	0.0	1.0
20	-0.5	Frozen.	9.0	-0.3	-0.5	-0.5	0.0	-0.6	-0.5	0.0	-0.2	0.5
21	-0.6	-----	1.0	-0.5	-0.5	-0.5	0.0	-0.6	-0.5	0.0	-0.2	0.0
22	-0.6	-----	0.6	-0.5	-0.5	0.0	14.0	-0.6	-0.5	0.0	1.5	0.0
23	-0.4	0.5	0.0	-0.5	-0.6	1.0	12.1	-0.5	-0.5	0.0	1.0	0.0
24	1.0	1.5	0.3	-0.5	-0.4	0.5	3.0	-0.3	-0.5	6.0	0.7	0.0
25	2.0	1.0	0.7	0.0	-0.5	0.5	17.0	-0.3	-0.5	3.0	0.3	0.0
26	0.5	0.1	0.3	0.0	-0.3	2.0	3.6	0.0	-0.5	1.0	0.0	-0.2
27	0.0	0.0	0.0	-0.2	-0.3	1.4	2.0	-0.3	-0.5	0.0	0.0	-0.3
28	-0.3	0.0	0.0	-0.3	0.0	0.5	0.5	-0.3	-0.5	0.0	3.0	-0.3
29	-0.4	0.0	0.0	-0.3	-0.6	0.5	0.3	-0.6	-0.6	0.0	6.0	-0.3
30	-0.6	-----	0.3	-0.5	-0.1	0.0	2.5	-0.6	-2.0	0.0	2.5	0.0
31	-0.5	-----	1.5	-----	-0.5	-----	4.0	-0.6	-----	0.0	-----	0.0

1897.

1	0.0	Frozen.	0.0	0.0	-0.3	0.0	-----	-----	-0.6	-2.4	-2.5	1.0
2	0.0	1.5	0.0	0.0	1.5	0.0	-----	-----	-0.8	-2.2	-2.5	0.5
3	0.0	4.2	0.0	0.0	2.3	0.0	-----	-----	-0.8	-2.2	-2.5	0.5
4	0.0	2.1	3.6	0.0	1.0	0.0	-----	-----	-0.7	-2.2	-2.5	0.8
5	1.5	1.7	2.0	0.2	1.0	0.0	-----	-----	-0.7	-2.2	-2.5	9.6
6	1.0	3.6	1.7	0.0	0.4	0.0	-----	-----	-0.7	-2.2	-2.5	2.0
7	0.5	8.1	0.5	0.5	0.2	0.0	-----	-----	-0.9	-2.2	-2.5	0.5
8	0.0	3.9	0.3	0.3	0.0	0.0	-----	-----	-1.0	-2.2	-2.5	0.0
9	0.0	2.8	0.3	3.6	0.0	0.0	-----	-----	-1.1	-2.2	3.5	-0.6
10	0.0	2.0	0.3	3.5	0.0	0.0	-----	-----	-1.1	-2.2	3.0	-1.0
11	0.0	1.5	0.0	2.0	0.0	0.0	-----	-----	-1.2	-2.2	2.8	-1.0
12	0.0	1.2	0.0	0.5	0.0	0.0	-----	-----	-1.2	-2.2	1.0	-0.2
13	0.0	3.7	0.0	0.1	4.8	0.0	-----	-----	-1.3	-2.2	1.0	-0.6
14	0.0	2.0	0.0	0.0	4.5	0.2	-----	-----	-1.8	-2.2	0.5	-0.6
15	0.0	0.5	0.0	2.4	0.1	0.0	-----	-----	-1.9	-2.2	0.5	6.4
16	0.0	0.4	0.0	2.4	0.0	0.0	-----	-----	-2.0	-2.3	0.3	1.0
17	0.0	0.3	0.0	1.6	0.0	1.1	-----	-----	-1.0	-2.4	0.5	0.3
18	0.0	0.1	4.0	0.4	0.0	2.0	-----	-----	-1.2	-2.5	0.5	0.5
19	0.0	0.0	3.4	0.0	0.0	0.0	-----	-----	-1.5	-2.5	0.3	0.7
20	0.0	0.0	3.9	0.0	0.0	3.0	-----	-----	-1.6	-2.5	0.0	1.0
21	1.0	3.0	2.2	0.0	0.0	1.6	-----	-----	-1.8	-2.5	0.0	4.5
22	1.0	11.0	0.5	0.0	0.0	0.0	-----	-----	-2.0	-2.5	0.5	0.2
23	0.5	15.2	0.3	0.0	0.0	0.0	-----	-----	-2.0	-2.5	0.3	2.3
24	0.3	3.7	0.3	0.0	0.0	0.0	-----	-----	-2.0	-2.5	0.0	1.0
25	0.2	2.0	2.2	0.0	0.0	0.0	-----	-----	-2.0	-2.5	-0.6	1.0
26	0.0	1.5	1.9	0.0	0.0	0.0	-----	-----	-2.0	-2.5	-0.6	2.4
27	0.0	0.3	1.5	0.0	0.0	0.0	-----	-----	-2.0	-2.5	5.0	1.5
28	0.0	0.0	1.7	0.0	0.0	0.0	-----	-----	-2.0	-2.5	4.8	0.5
29	Frozen.	-----	0.4	-0.2	0.0	0.0	-----	-----	-2.1	-2.5	2.0	0.0
30	-----	-----	0.3	-0.3	0.0	0.0	-----	-----	-2.1	-2.5	2.0	0.0
31	-----	-----	0.0	-----	0.0	0.0	-----	-----	-2.5	-----	-----	2.0

DAILY RIVER STAGES.

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Ohio River system (Monongahela River branch)—West Fork of Monongahela, Weston, W. Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.5	4.6	0.0	0.5	-0.3	0.0	-0.6	-0.2	-1.0	-1.0	0.4	0.6
2	2.0	5.0	0.3	0.0	-0.4	-0.5	-0.8	0.0	-1.0	-1.0	0.4	0.6
3	0.6	4.5	0.0	0.2	-0.6	-0.5	-1.0	0.3	-1.2	-1.2	0.4	0.3
4	1.6	3.5	-0.3	0.0	-0.6	-0.6	-1.0	0.2	-1.2	-1.2	0.0	0.3
5	1.8	3.0	-0.5	0.0	-0.6	-0.9	-1.0	2.8	-0.8	-1.2	-0.2	0.8
6	2.0	3.0	-0.4	0.8	-0.6	-0.9	-0.3	0.7	0.5	-1.2	0.2	1.0
7	2.0	2.0	-0.6	0.4	-0.6	-1.0	-0.9	0.3	1.0	-0.5	0.4	1.0
8	2.0	1.5	-0.8	0.0	0.5	-1.0	-1.0	0.0	1.7	-0.1	0.2	0.6
9	0.5	1.0	-1.0	-0.3	0.4	-1.0	-1.0	1.2	0.8	0.1	0.0	0.4
10	10.9	0.5	-1.2	-0.6	0.0	-1.0	-1.0	5.9	0.2	-0.2	0.0	0.0
11	5.0	1.5	-1.2	-0.6	0.5	-1.0	-1.0	6.0	0.0	-0.6	3.1	0.0
12	4.0	0.8	-1.5	-0.9	0.0	-1.0	-1.0	1.5	0.0	-0.3	0.3	0.0
13	4.5	0.7	-1.5	-0.8	0.0	-0.9	-1.0	3.2	-0.4	-0.5	0.0	0.0
14	2.0	0.5	-1.1	-0.7	-0.2	-0.6	-0.1	1.3	-1.0	-0.5	0.4	0.0
15	4.0	0.8	-1.2	1.0	0.8	0.5	-1.0	0.7	-1.0	0.0	0.7	0.0
16	5.0	0.6	-1.0	2.5	3.0	0.2	-1.0	0.4	-1.0	0.2	0.2	0.2
17	1.0	0.5	7.5	1.0	2.6	1.5	-0.6	0.0	-1.0	0.2	0.2	0.2
18	0.5	1.5	3.2	0.4	0.7	0.1	0.0	0.0	-1.0	0.5	0.2	2.7
19	0.0	2.5	1.0	0.0	0.2	-0.3	0.3	0.0	-1.0	2.8	0.9	3.4
20	1.0	1.0	1.5	0.0	0.0	0.5	0.5	0.6	-1.0	1.3	1.7	3.7
21	0.5	1.7	3.5	0.0	-0.3	0.0	0.6	0.2	-1.0	1.5	1.0	2.3
22	0.0	4.0	3.0	0.0	0.3	-0.4	0.4	-0.4	-0.7	6.3	0.7	1.0
23	6.8	2.0	1.5	0.0	1.0	-0.4	0.2	-0.6	-0.2	3.4	0.4	0.6
24	4.0	0.8	4.0	4.0	0.7	-0.6	0.0	-0.6	-0.4	1.8	0.4	0.6
25	2.8	2.0	8.0	5.0	1.5	-0.6	-0.4	-0.6	-0.4	0.6	0.2	0.4
26	3.3	2.3	1.5	6.0	0.7	-0.6	-0.4	-0.6	-0.4	0.6	0.0	0.2
27	2.8	1.4	0.5	2.0	0.1	-0.4	0.0	-0.7	-0.8	0.2	0.0	0.1
28	2.0	0.4	0.1	0.5	0.0	-0.2	-0.3	-0.7	-1.0	0.4	-0.2	0.0
29	2.0	.....	13.1	0.0	0.6	0.0	-0.6	-0.9	-1.0	0.2	0.0	0.0
30	2.5	.....	4.8	0.0	0.3	-0.3	-0.6	-1.0	-1.0	0.2	0.4	0.0
31	3.5	.....	2.0	.....	0.0	.....	-0.8	-1.0	.....	0.4	.....	0.0

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.3	0.3	0.8	2.1	-0.5	1.3	0.0	-0.4	-1.3	-1.0	0.0	-0.5
2	0.5	0.0	0.4	1.5	-0.5	2.5	-0.5	-0.6	-1.3	-1.0	0.0	-0.5
3	0.3	0.2	0.4	0.6	-0.6	0.8	-0.5	-0.6	-1.3	-1.3	0.0	-0.5
4	2.8	7.5	0.9	0.3	-0.2	0.4	-0.5	-0.6	-1.3	-1.3	0.0	-0.5
5	2.0	2.8	13.0	0.1	-0.2	0.2	-0.8	-0.8	-1.5	-1.3	-0.4	-0.3
6	10.0	1.3	3.2	0.0	-0.4	-0.2	-0.8	-0.8	-1.5	-1.6	-0.4	-0.2
7	12.1	1.3	1.2	0.0	0.0	-0.2	-0.8	-0.8	-1.5	-1.6	-0.4	-0.2
8	1.2	1.0	0.5	1.2	0.3	-0.5	-0.8	-0.8	-1.5	-1.6	-0.4	-0.5
9	0.7	0.6	1.3	1.6	0.7	-0.5	-0.8	-1.0	-1.5	-1.6	-0.6	-0.7
10	0.5	0.4	3.2	1.0	0.6	-0.5	-0.8	-1.0	-1.6	-1.4	-0.6	-0.7
11	0.0	0.3	1.5	0.6	0.8	0.0	-0.9	-0.5	-0.9	-1.6	-0.6	-0.4
12	0.0	0.3	0.7	0.4	2.4	0.0	-0.9	0.0	-0.6	-1.6	-0.6	1.2
13	0.3	0.2	0.2	0.2	1.0	0.3	-0.9	-0.3	-0.6	-1.6	-0.6	0.9
14	3.8	0.2	0.1	0.1	0.7	0.5	-0.9	-0.5	-0.8	-1.8	-0.8	0.4
15	2.6	0.0	0.0	0.1	0.5	0.7	0.0	-0.5	-0.8	-1.8	-0.8	0.0
16	1.2	0.2	0.0	0.0	0.2	0.5	0.0	-0.6	-1.0	-1.8	-0.8	0.2
17	1.0	0.8	0.0	0.4	0.0	0.0	-0.6	-0.6	-1.0	-1.8	-0.8	0.0
18	1.3	4.0	0.0	0.1	0.3	-0.3	-0.4	-0.6	-1.2	-1.8	-0.8	0.0
19	0.7	4.4	2.2	0.0	0.4	-0.3	0.0	-0.8	-1.2	-1.8	-0.8	-0.2
20	0.4	4.2	2.0	0.0	0.0	-0.5	-0.2	-1.0	-0.9	-1.8	-0.8	2.8
21	0.2	4.0	0.8	0.0	0.0	-0.5	-0.5	-1.0	-0.6	-1.8	-0.5	1.0
22	0.0	2.2	0.6	0.0	0.0	-0.6	-0.6	-1.0	-0.6	-2.0	-0.4	0.6
23	0.0	1.4	1.0	-0.2	-0.2	-0.6	-0.6	-1.0	-1.0	-2.0	-0.4	0.0
24	0.0	1.1	1.0	-0.2	-0.4	-0.8	-0.6	-1.4	-1.0	-2.0	-0.4	0.6
25	4.9	0.7	0.5	-0.4	-0.6	-0.8	-0.6	-1.4	-1.0	-2.0	-0.4	0.9
26	2.0	0.2	0.3	-0.4	-0.6	-0.8	-0.4	-1.4	-1.0	-1.8	-0.2	0.5
27	1.5	2.8	0.3	-0.4	-0.6	-0.5	-0.6	-1.4	-1.0	-1.8	-0.2	0.3
28	0.7	1.3	5.5	-0.5	-0.8	-0.5	-0.9	-0.6	-1.2	-1.8	-0.5	0.0
29	0.2	.....	8.1	-0.5	-0.8	0.6	-0.3	-0.6	-1.0	-1.8	-0.5	0.0
30	0.0	.....	2.2	-0.5	-0.1	0.4	-0.1	-0.9	-1.0	-1.6	-0.5	0.0
31	0.0	.....	1.4	.....	-0.1	.....	0.4	1.0	.....	-1.6	.....	Frozen.

¹ 17.3 at 6 p. m.

DAILY RIVER STAGES.

Ohio River system (Monongahela River branch)—Tygart's Valley River, Philippi, W. Va.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1								-0.4	-1.2	1.4	0.7	
2								-0.2	-1.2	1.4	0.8	
3								-0.1	-1.2	1.6	0.8	
4								2.6	-1.1	1.6	0.4	
5								12.0	-1.1	1.6	0.1	
6								7.8	-1.0	1.6	0.4	
7								3.0	0.8	1.6	0.4	
8								1.5	1.0	1.5	0.4	
9								2.8	0.9	1.3	0.2	
10								9.0	0.6	1.2	0.1	
11								14.4	-0.1	1.2	4.0	
12								11.0	-0.7	1.2	2.8	
13								8.2	-0.9	1.3	2.6	
14								4.0	-1.0	1.4	2.2	
15							-2.0	2.2	-1.0	1.3	2.6	
16							-1.9	1.2	-1.2	1.1	2.4	
17							0.6	0.7	-1.2	1.0	1.9	
18							-0.4	0.0	-1.3	1.0	1.6	
19							1.5	0.0	-1.3	3.0	2.0	
20							-0.6	1.5	-1.4	2.4	8.0	
21							-0.2	1.0	-1.4	0.9	5.8	
22							-0.2	0.4	-1.4	8.0	4.0	
23							0.3	-0.2	-1.5	5.8	3.0	
24							0.5	-0.6	-1.3	3.5	2.8	
25							0.4	-0.9	-1.3	2.2	2.0	
26							0.4	-0.9	-1.3	1.2	1.4	
27							1.0	-0.9	-1.2	1.2	1.0	
28							0.5	-1.0	-1.2	1.3	0.7	
29							0.9	-1.0	-1.3	1.2	0.7	
30							0.4	-1.2	-1.4	0.9	0.7	
31							-0.2	-1.2		0.7		

1899.

1						1.6	1.2	0.1	-2.4	-1.6	-2.0	
2						2.0	0.9	-0.2	-2.4	-1.6	-0.9	
3						1.8	0.4	-0.2	-2.4	-1.6	0.8	
4						1.2	0.2	-0.4	-2.4	-1.6	0.7	
5						1.0	-0.2	-0.5	-2.4	-1.6	0.5	
6						0.7	-0.6	-0.6	-2.4	-1.6	0.4	
7						0.1	-0.6	-0.6	-2.4	-1.8	0.4	
8						0.0	-0.7	-0.8	-2.2	-1.8	0.4	
9						-0.2	-0.7	-0.9	-2.2	-1.8	0.4	
10						-0.2	-0.9	-1.2	-2.2	-1.8	-0.2	
11						0.1	-1.2	-1.2	-2.0	-1.8	-0.2	
12						0.8	-1.2	-1.3	-2.0	-1.8	-0.2	
13						0.7	-1.4	-1.6	-2.0	-1.8	-0.4	
14						1.0	-1.4	-1.6	-2.0	-1.8	-0.4	
15						1.5	-1.6	-1.6	-1.8	-1.8	-0.6	
16						1.4	-1.6	-1.8	-1.8	-1.8	-0.6	
17						1.4	-1.1	-1.8	-1.8	-1.8	-0.6	
18						1.2	0.8	-2.0	-1.8	-1.8	-0.6	
19						0.7	1.1	-2.0	-1.8	-1.8	-0.6	
20						0.5	1.0	-2.2	-1.8	-1.8	-0.6	
21						0.5	0.7	-2.2	-1.8	-1.8	-0.6	
22						0.4	0.4	-2.2	-1.8	-1.8	-0.6	
23						0.4	0.2	-2.3	-1.8	-1.9	-0.6	
24						0.1	0.2	-2.3	-1.8	-1.9	-0.8	
25						-0.2	0.1	-2.4	-1.8	-2.0	0.4	
26						-0.2	0.1	-2.4	-1.8	-2.0	0.8	
27						-0.3	-0.2	-2.4	-1.6	-2.0	0.8	
28						-0.4	-0.4	-2.4	-1.5	-2.0	0.4	
29						-0.4	-0.6	-2.4	-1.5	-2.1	0.2	
30						1.0	-0.2	-2.4	-1.5	-2.1	0.1	
31							0.4	-2.4		-2.2		

DAILY RIVER STAGES.

313

Ohio River system (Monongahela River branch)—Cheat River, Rowlesburg, W. Va.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.0	4.0	4.8	5.0	4.0	4.0	4.0	4.5	2.0	8.0	3.3	4.0
2	5.0	8.0	4.6	4.5	4.5	4.0	3.5	3.9	2.0	6.0	2.5	4.8
3	4.5	6.0	4.0	5.0	3.9	4.0	3.0	4.2	2.0	5.0	2.0	4.6
4	4.3	6.2	4.0	4.5	3.5	3.7	3.0	3.5	1.8	3.0	2.0	4.5
5	4.0	5.0	4.0	4.5	3.0	3.1	4.2	3.0	1.5	2.5	5.5	3.5
6	4.0	4.0	4.0	4.0	3.0	3.0	5.2	3.0	1.2	2.5	7.0	3.1
7	4.0	4.0	3.8	4.4	3.0	3.0	4.3	3.0	1.2	2.5	5.0	3.0
8	4.0	4.0	4.0	4.0	3.0	2.8	3.7	4.0	1.2	2.0	4.0	3.0
9	4.0	3.7	5.0	4.0	3.0	2.8	4.5	4.0	1.3	2.0	4.0	6.0
10	3.7	3.5	3.4	4.5	3.0	2.8	5.5	3.5	1.3	2.0	4.0	5.5
11	3.7	3.2	3.1	4.0	3.0	6.0	3.8	3.5	1.0	1.6	3.5	4.0
12	3.5	3.0	3.8	5.0	3.0	4.3	3.0	3.0	1.0	1.6	3.3	3.0
13	3.5	3.0	3.7	4.5	3.0	4.0	2.8	3.0	1.0	1.6	3.3	3.0
14	3.5	8.0	3.5	4.0	3.0	4.5	2.8	3.0	1.0	2.0	3.3	4.0
15	3.5	6.5	3.0	5.0	3.0	5.6	3.6	2.8	0.7	2.5	2.8	3.5
16	3.5	4.8	3.1	4.5	3.0	6.0	6.0	2.5	0.7	1.5	2.8	3.5
17	3.5	4.8	3.9	4.0	2.8	4.8	5.0	2.0	1.8	1.5	2.8	3.0
18	3.5	4.0	4.0	4.0	3.0	4.0	3.8	2.0	2.0	1.5	2.6	3.0
19	3.7	3.8	4.5	3.7	2.5	4.0	3.8	2.0	2.0	1.5	2.4	3.0
20	3.8	3.5	7.0	3.5	2.8	3.8	3.0	2.0	1.0	2.5	2.4	3.0
21	4.0	3.0	4.0	4.0	4.0	3.0	5.0	2.0	1.0	3.0	2.4	3.0
22	4.0	3.0	5.0	3.5	4.5	3.0	15.0	2.4	1.2	3.0	3.1	3.0
23	5.0	3.0	5.0	3.5	5.5	6.0	7.0	2.8	1.2	3.0	2.8	3.0
24	4.3	3.0	5.5	3.5	5.0	5.2	7.0	3.0	1.8	5.0	2.5	3.0
25	5.2	3.0	5.0	3.0	4.5	6.0	9.0	3.0	1.8	4.0	3.5	3.0
26	5.5	3.0	4.0	3.0	3.5	6.3	7.0	2.8	1.4	2.8	3.0	3.0
27	5.8	3.0	6.0	5.0	4.0	5.4	7.0	2.5	1.0	2.2	2.5	3.0
28	5.0	3.0	5.0	4.0	4.8	4.0	5.0	2.5	1.0	2.0	2.5	2.8
29	4.6	3.5	4.8	4.0	6.0	4.6	6.0	2.0	1.0	2.0	5.0	2.8
30	4.6		9.0	3.5	5.0	4.0	6.3	2.0	7.0	2.0	3.9	2.8
31	4.5		6.0		4.6		8.0	2.0		3.0		2.8

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.4	Frozen.	4.0	3.0	2.0	3.0	2.0	2.8	1.8	0.1	-0.7	3.0
2	3.0		4.0	3.0	6.4	3.0	2.0	2.8	1.4	-0.2	-0.4	2.5
3	3.3		4.0	2.8	7.0	3.0	4.1	2.8	1.4	-0.2	0.0	2.5
4	2.8		5.0	2.5	5.0	3.5	3.5	6.4	1.4	-0.2	0.3	2.8
5	3.5		5.0	2.5	6.0	3.0	3.0	6.0	1.4	-0.4	0.5	9.0
6	5.0		6.0	5.0	5.4	3.0	3.3	5.0	1.2	-0.4	0.8	6.5
7	4.3		6.0	5.0	5.0	3.0	3.1	4.0	1.0	-0.4	0.4	6.0
8	3.3	5.0	4.5	4.5	4.6	2.5	4.0	3.5	1.0	-0.4	0.9	4.5
9	3.0	3.5	3.0	4.5	2.4	3.3	3.5	3.0	0.8	-0.4	5.5	4.0
10	3.0	3.0	3.0	6.0	2.0	3.6	3.0	3.0	0.8	-0.6	7.2	4.0
11	3.0	3.0	3.0	4.5	2.0	3.0	2.5	3.0	0.7	-0.6	5.0	3.5
12	3.0	3.6	5.0	4.0	5.0	3.0	2.0	2.5	-0.4	-0.6	4.5	4.0
13	2.8	6.0	4.0	3.0	6.6	2.5	3.0	2.2	0.6	-0.6	4.0	3.4
14	2.8	3.5	3.5	3.0	7.0	2.5	2.8	2.0	0.6	-0.7	3.5	3.0
15	Frozen.	3.0	3.3	4.0	6.0	3.5	3.3	2.0	-0.6	-0.7	4.0	3.0
16		3.0	3.0	3.5	5.6	4.3	3.0	2.0	-0.6	-0.7	3.3	6.0
17	3.3	4.5	3.0	3.5	4.6	4.5	3.0	2.6	-0.7	-0.7	4.5	4.5
18	5.5	3.5	2.5	3.0	4.0	5.2	2.5	1.8	3.5	-0.9	3.0	5.5
19	4.5	3.0	6.0	3.0	4.0	3.7	2.5	1.8	3.0	-0.9	3.0	5.0
20	4.0	3.0	6.0	3.0	4.0	3.5	2.8	1.8	2.8	-0.9	3.0	4.0
21	3.0	3.5	5.4	3.0	4.0	6.0	4.0	1.8	2.2	-0.9	3.0	5.5
22	4.0	10.0	5.0	2.8	3.7	5.0	4.0	1.8	1.6	-0.9	3.0	5.0
23	3.5	13.5	5.0	2.5	3.7	3.5	4.8	1.8	1.4	-0.7	3.0	4.5
24	3.0	7.0	5.0	2.5	3.5	3.0	3.1	1.8	1.2	-1.1	2.8	3.5
25	Frozen.	6.0	5.0	2.0	3.8	3.0	2.8	1.8	1.0	-1.2	2.5	3.0
26		5.0	4.3	2.0	4.0	3.0	4.5	2.2	1.0	-0.7	2.5	3.0
27		4.5	3.5	1.8	3.5	2.8	5.0	2.0	1.0	-0.7	3.0	3.0
28		4.0	3.0	1.6	3.0	2.8	4.0	2.0	1.0	-0.7	5.0	3.0
29			3.0	1.6	3.0	2.5	3.0	2.0	0.4	-0.7	4.0	3.0
30			3.0	1.8	3.0	2.0	4.0	1.8	0.2	-0.7	3.0	3.0
31			3.0		3.0		2.8	1.8		-0.7		3.0

DAILY RIVER STAGES.

Ohio River system (Monongahela River branch)—Cheat River, Rowlesburg, W. Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.0	3.0	3.8	5.0	3.5	2.8	1.8	2.0	2.5	0.8	2.8	2.5
2	3.0	Frozen.	3.8	5.0	3.0	2.5	1.8	2.0	2.5	0.8	2.5	2.5
3	3.0	-----	3.0	4.5	3.0	2.5	1.0	2.6	2.5	0.6	2.5	2.5
4	3.0	-----	3.0	4.0	2.8	2.0	1.0	3.0	2.5	0.6	2.5	2.5
5	3.0	-----	3.0	4.0	1.9	2.0	1.0	6.4	2.0	0.6	2.2	2.5
6	3.0	-----	3.0	4.0	2.4	2.0	1.0	7.0	2.0	0.6	2.6	2.5
7	3.0	-----	3.0	4.0	3.3	2.0	1.2	5.0	2.6	0.8	3.1	2.5
8	3.5	-----	3.0	3.5	6.0	1.8	1.5	4.5	2.8	1.0	2.8	2.5
9	4.0	-----	3.0	3.5	5.2	1.8	1.5	6.2	2.5	1.5	2.2	2.5
10	8.5	2.9	2.8	3.0	4.0	1.8	1.5	8.5	2.0	1.5	2.6	2.5
11	7.0	2.9	2.5	3.0	4.0	1.8	1.0	9.4	1.8	1.5	5.5	2.5
12	6.0	5.0	2.5	4.0	4.0	1.8	1.0	6.0	1.6	1.2	5.6	2.5
13	6.0	4.5	2.5	3.8	4.5	1.8	0.5	5.0	1.6	1.0	5.0	2.5
14	4.3	5.6	3.0	4.0	4.0	2.0	0.5	4.0	1.0	1.5	4.0	2.5
15	4.0	5.6	3.0	4.0	3.8	3.0	0.5	4.5	1.0	1.5	4.0	Frozen.
16	7.9	5.0	3.6	5.0	4.2	2.0	0.5	4.0	1.0	1.6	3.5	-----
17	6.5	4.9	6.0	4.5	9.0	2.0	2.0	4.0	1.0	1.5	3.5	-----
18	5.0	4.5	7.0	4.0	5.6	2.0	4.0	4.0	0.8	1.3	4.0	-----
19	4.0	6.0	5.4	4.0	4.0	2.0	5.0	4.5	0.8	1.6	4.5	2.0
20	4.5	4.0	4.0	5.0	3.5	2.5	4.0	5.0	0.8	4.5	5.5	7.0
21	4.0	6.0	6.0	4.5	3.5	3.5	3.5	4.0	0.8	3.0	5.0	7.0
22	4.0	5.6	7.0	4.0	3.5	3.0	3.0	3.0	0.8	7.0	4.0	6.0
23	6.0	4.6	7.2	4.0	8.0	3.0	2.0	3.5	0.8	6.0	4.0	6.5
24	5.5	4.0	7.5	4.0	4.0	3.0	1.2	3.0	1.0	5.0	3.8	5.5
25	4.0	4.0	8.0	6.0	4.0	2.4	1.5	3.0	1.5	4.5	3.5	5.0
26	5.0	4.0	5.0	6.5	3.0	2.4	2.0	2.6	1.1	4.5	3.0	4.8
27	5.5	4.0	4.5	4.0	3.0	2.0	2.5	2.5	0.8	4.5	3.0	5.0
28	4.0	3.8	4.0	3.5	3.0	2.0	2.0	2.5	0.8	3.0	Frozen.	4.6
29	3.5	-----	4.0	3.5	3.0	2.0	2.5	2.5	0.8	3.0	-----	4.3
30	4.0	-----	6.0	3.0	3.0	2.0	2.0	2.5	0.8	3.0	2.8	3.5
31	3.4	-----	5.0	-----	2.8	-----	2.0	2.5	-----	3.0	-----	4.0

1899.

1	4.0	Frozen.	4.0	4.0	2.4	2.0	3.2	2.8	1.3	1.0	-1.2	1.5
2	Frozen.	-----	4.0	4.8	2.2	6.0	3.0	2.0	1.5	0.8	-1.1	1.7
3	3.0	-----	4.5	4.5	3.0	4.6	3.0	1.7	1.5	0.6	3.3	1.7
4	3.0	9.0	5.2	4.0	4.0	4.0	3.0	1.6	2.0	0.4	3.0	1.7
5	6.0	6.0	10.0	4.0	2.8	3.0	2.5	1.5	1.8	0.4	3.0	1.7
6	6.5	5.0	6.0	4.0	3.0	2.0	2.5	1.5	1.8	0.3	2.8	1.6
7	7.0	4.5	4.5	4.0	3.5	2.0	3.1	1.5	1.8	0.3	2.8	1.6
8	4.5	4.5	4.5	5.5	5.5	2.0	2.6	1.5	1.8	0.3	2.8	1.6
9	4.0	Frozen.	4.0	4.0	7.0	2.6	2.6	1.5	1.6	0.3	2.6	1.6
10	4.0	-----	4.0	4.0	3.0	3.0	2.6	1.0	1.6	0.0	2.5	1.6
11	3.7	-----	4.0	3.5	3.0	5.0	2.6	1.0	1.6	0.0	2.4	1.6
12	3.5	-----	4.0	3.5	6.0	2.9	2.0	0.8	1.8	0.0	2.4	2.0
13	3.2	-----	3.5	3.5	4.5	2.0	2.0	0.7	2.4	0.0	2.4	5.0
14	4.0	-----	3.5	3.0	3.0	4.0	2.0	0.7	2.2	0.0	2.0	4.0
15	6.0	-----	3.5	3.0	3.0	7.9	1.4	0.7	2.0	-0.2	2.0	3.5
16	4.5	-----	4.0	3.0	2.8	8.0	1.0	0.5	1.8	-0.4	2.0	3.0
17	4.5	-----	3.7	3.0	3.5	5.0	3.0	-0.2	1.5	-0.4	1.8	3.0
18	4.5	-----	3.7	3.0	7.5	4.0	3.5	-0.4	1.3	-0.6	1.7	2.8
19	4.0	-----	5.0	3.0	5.0	2.8	3.0	0.3	1.2	-0.6	1.7	2.5
20	3.5	-----	4.4	3.0	4.3	2.8	3.0	-0.4	1.2	-0.9	2.0	4.0
21	3.5	6.0	4.0	3.0	4.3	6.0	2.5	-0.2	1.0	-0.9	2.0	3.8
22	3.0	8.0	4.0	3.0	4.0	6.3	2.3	-0.4	1.5	-0.9	2.0	4.3
23	3.0	6.0	4.4	2.8	3.5	4.0	2.0	-0.4	1.2	-1.0	2.0	4.0
24	3.0	5.4	3.8	2.2	3.2	3.0	2.0	-0.4	1.0	-1.0	2.0	4.5
25	5.0	5.0	3.5	2.8	3.0	3.5	2.0	-0.6	1.0	-1.0	2.2	4.5
26	4.3	4.0	3.5	3.0	2.5	3.0	1.5	-0.8	1.0	-1.2	2.0	4.0
27	4.0	5.1	3.5	2.5	2.2	3.0	1.5	-0.3	1.2	-1.2	2.0	4.0
28	4.0	4.5	3.5	2.4	2.2	3.0	1.3	-0.6	1.0	-1.2	1.8	4.0
29	4.0	-----	5.0	2.0	2.0	4.0	0.8	-0.6	1.0	-1.2	1.6	Frozen.
30	4.0	-----	4.6	2.2	2.0	5.2	0.8	-0.6	1.0	-1.2	1.5	-----
31	4.0	-----	4.5	-----	2.5	-----	3.0	1.3	-----	-1.2	-----	-----

*8.2 at 6 p. m.

*8.0 at 3 p. m.

DAILY RIVER STAGES.

315

*Ohio River system (Monongahela River branch)—Youghiogheny River, Confluence, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.5	2.1	4.3	6.8	1.3	3.2	1.3	5.5	0.2	5.5	1.6	3.7
2	1.3	6.9	3.8	5.5	1.3	2.8	1.2	4.1	0.3	4.8	1.5	2.7
3	1.3	5.5	3.1	4.5	1.6	2.2	1.1	3.5	0.2	4.0	1.3	2.6
4	1.2	4.0	2.8	4.0	1.6	1.9	1.0	3.0	0.2	4.0	1.4	2.5
5	Frozen.	4.0	2.5	4.0	1.4	1.6	1.8	2.6	0.2	2.9	3.9	2.3
6		3.8	2.3	3.8	1.3	1.5	2.1	2.0	0.3	2.2	6.0	2.2
7		4.5	2.3	3.4	1.1	1.2	2.0	1.8	0.3	1.8	4.1	2.1
8		4.0	3.8	3.2	1.0	2.7	1.9	2.0	0.2	1.6	3.9	2.0
9		3.5	3.4	3.0	0.8	3.0	2.2	1.6	0.2	1.5	3.5	3.5
10		3.1	3.0	3.9	0.6	3.0	1.8	1.3	0.1	1.4	2.6	3.4
11		2.8	3.1	3.5	0.5	2.4	1.6	1.0	0.1	1.3	2.3	2.9
12		2.6	3.8	5.0	0.5	2.1	1.4	0.9	0.2	1.5	2.7	2.4
13		2.4	3.1	4.1	0.4	1.9	1.3	0.9	0.2	1.5	2.6	2.2
14		5.0	3.1	3.7	3.6	1.9	1.2	0.8	0.1	1.6	2.3	2.6
15		4.3	2.7	3.2	2.6	1.8	1.3	0.8	0.6	1.6	2.1	2.5
16		4.3	2.7	3.0	2.1	1.5	3.6	0.7	0.6	1.5	2.0	2.2
17		4.0	2.6	2.9	1.8	2.2	3.4	0.7	0.5	1.5	1.8	2.1
18		3.5	2.4	2.7	1.6	2.3	2.1	0.6	0.5	1.4	1.6	1.9
19		3.4	2.7	2.0	1.8	2.0	1.9	0.6	0.4	1.4	1.7	1.8
20		3.1	3.6	1.8	2.4	1.6	1.7	0.5	0.7	1.5	1.6	1.7
21		2.6	3.3	1.8	2.2	1.3	2.8	0.5	0.6	1.6	1.5	1.6
22		2.3	4.0	1.6	2.2	1.6	3.4	0.4	0.4	1.6	1.8	1.5
23		2.3	4.1	1.7	2.1	1.8	7.2	0.5	0.6	1.6	2.8	1.5
24	1.5	2.0	3.9	1.7	2.0	1.9	5.4	0.6	0.6	4.0	2.6	1.4
25	4.0	2.0	3.2	2.5	1.9	3.5	13.0	0.5	0.5	3.9	2.2	1.4
26	3.3	2.0	4.0	2.3	1.8	1.9	5.9	0.4	0.5	3.2	2.0	1.4
27	2.6	2.4	4.8	2.0	3.0	1.6	5.5	0.4	0.4	2.6	1.9	1.4
28	2.0	2.1	4.7	1.8	2.5	1.4	9.5	0.4	0.4	2.2	2.1	1.4
29	2.0	3.5	7.6	1.7	5.5	1.7	6.8	0.3	0.4	2.0	4.8	1.3
30	1.7		10.5	1.5	4.0	1.5	5.5	0.3	7.1	1.8	4.0	1.4
31	1.4		8.9		3.7		6.8	0.3		1.7		1.5

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.6	1.6	4.0	2.5	1.6	1.0	0.7	0.9	0.0	0.4	0.1	2.2
2	2.9	1.7	3.0	2.3	5.5	0.9	0.6	0.8	0.0	0.3	0.2	2.0
3	2.7	1.5	3.5	2.0	4.6	0.9	0.5	0.8	0.0	0.3	0.2	1.8
4	2.5	1.5	3.3	1.9	4.0	1.8	0.5	1.0	0.0	0.2	0.5	2.6
5	3.9	1.4	5.2	3.3	4.0	1.8	0.4	2.4	0.0	0.2	0.4	5.6
6	3.7	1.6	7.9	2.8	3.5	1.6	0.4	1.9	0.0	0.1	0.4	4.0
7	3.5	3.9	6.0	2.6	3.2	1.4	0.4	1.3	0.0	0.1	0.3	3.9
8	3.3	3.6	5.2	2.5	2.9	1.3	0.8	1.2	0.0	0.1	0.5	3.6
9	2.9	3.3	4.3	4.8	2.8	1.2	0.7	1.0	0.0	0.1	0.5	3.0
10	2.6	3.0	4.0	6.9	2.5	1.1	0.6	1.0	0.0	0.0	3.0	3.0
11	2.4	2.8	3.5	5.5	2.0	1.1	0.5	0.9	0.0	0.0	2.3	2.9
12	2.3	3.0	3.4	3.6	3.3	1.1	1.0	0.7	0.0	0.0	3.2	2.8
13	2.2	2.7	3.3	3.0	4.5	1.0	0.9	0.7	0.0	0.0	2.6	2.5
14	1.7	2.6	3.1	3.0	5.2	1.2	0.8	0.6	-0.1	0.0	2.2	2.2
15	1.6	4.4	3.2	3.5	4.2	1.1	0.8	0.6	-0.1	0.0	3.5	4.0
16	1.5	5.2	3.0	3.7	3.4	1.0	0.7	0.6	-0.1	0.0	3.3	4.6
17	1.6	4.8	2.8	3.5	3.1	1.0	0.7	0.6	-0.1	0.0	3.2	4.0
18	3.9	4.9	2.8	3.2	2.8	1.3	0.9	0.5	-0.1	0.0	2.7	3.7
19	3.5	5.7	3.3	2.8	2.5	1.2	1.2	0.5	-0.1	0.0	2.3	3.5
20	3.0	4.2	4.5	2.5	2.3	1.2	1.8	0.5	-0.1	-0.1	2.0	3.4
21	2.9	5.8	4.0	2.4	2.2	1.1	1.6	0.4	-0.1	-0.1	1.8	4.4
22	2.6	11.6	3.7	2.0	2.0	1.0	1.4	0.4	-0.1	-0.1	1.7	4.6
23	2.4	13.0	3.5	1.7	1.9	0.9	2.4	0.4	-0.1	-0.1	1.7	4.2
24	2.3	9.6	4.1	1.4	1.9	0.9	2.0	0.3	0.5	-0.1	1.7	3.9
25	2.0	6.8	4.9	1.6	1.9	0.8	1.7	0.3	0.5	-0.1	1.3	3.7
26	1.8	5.6	4.1	1.6	1.6	0.8	1.4	0.2	0.4	-0.1	1.2	3.1
27	1.7	4.3	3.5	3.2	1.4	0.8	1.6	0.2	0.4	-0.1	4.2	3.0
28	1.6	4.8	3.3	2.8	1.3	0.7	1.6	0.2	0.4	-0.1	4.3	2.7
29	1.6		3.0	2.3	1.3	0.7	1.3	0.1	0.4	-0.1	3.0	2.0
30	1.5		2.8	1.9	1.1	0.7	1.0	0.1	0.4	-0.1	2.8	2.0
31	1.6		2.5		1.0		0.9	0.1		-0.1		2.4

Ohio River system (Monongahela River branch)—Youghiogheny River, Confluence, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.6	2.5	1.5	4.2	1.7	1.7	1.6	3.1	1.5	0.7	2.5	2.4
2	2.2	2.4	1.5	3.8	1.6	1.6	1.7	2.6	1.4	0.6	2.4	2.4
3	2.1	2.4	1.5	3.5	1.4	1.6	1.7	2.1	1.3	0.5	2.2	2.6
4	2.0	2.0	1.8	3.4	1.3	1.5	1.6	2.6	1.2	0.5	2.1	2.6
5	2.0	1.9	1.8	3.4	1.2	1.4	1.5	5.9	1.1	0.6	1.9	2.6
6	1.9	1.9	1.7	3.3	1.1	1.3	1.4	4.4	1.4	1.0	2.2	2.1
7	2.6	1.8	1.6	3.0	2.5	1.2	1.3	3.5	1.6	1.0	2.7	2.4
8	3.0	1.8	1.6	2.8	3.0	1.1	1.2	2.4	1.9	1.3	2.3	2.7
9	2.6	1.7	1.5	2.5	2.6	1.1	1.1	4.9	1.7	1.5	2.1	2.5
10	5.8	2.0	1.5	2.5	2.2	1.0	1.0	7.4	1.4	1.4	2.1	2.4
11	6.5	4.4	1.4	2.4	2.0	1.0	1.0	6.8	1.2	1.2	5.0	1.0
12	6.0	5.8	1.4	2.2	1.8	1.2	1.0	5.5	1.0	0.9	4.5	1.7
13	7.0	5.0	2.0	2.2	1.7	2.4	0.9	4.8	1.0	0.8	4.0	2.0
14	6.0	3.6	3.0	2.6	1.6	3.9	0.9	4.4	0.9	0.9	3.6	2.3
15	4.0	3.4	2.8	3.8	1.5	3.1	1.0	6.3	0.8	1.0	3.5	2.1
16	6.8	3.2	2.9	4.8	1.9	2.6	1.5	4.3	0.8	1.1	3.1	2.1
17	5.0	3.0	4.0	3.4	4.5	2.1	1.7	3.4	0.7	1.0	3.0	2.1
18	4.0	3.0	5.8	2.6	3.5	1.9	4.0	3.7	0.7	1.0	2.9	2.0
19	3.8	4.0	4.0	2.6	2.9	1.8	2.5	3.9	0.7	1.1	2.8	2.6
20	3.0	3.9	4.0	2.6	2.5	2.0	3.0	6.5	0.7	3.4	3.5	3.4
21	3.5	4.6	6.0	2.5	2.1	2.1	2.1	4.5	0.7	2.7	3.5	5.0
22	3.5	3.6	7.5	2.5	1.8	2.2	1.8	3.7	0.7	5.4	3.4	5.4
23	6.8	3.0	7.6	2.1	4.7	2.0	1.6	3.0	0.6	6.0	3.4	5.4
24	6.0	2.4	7.6	2.0	3.8	1.8	1.5	2.7	0.8	5.0	3.3	5.4
25	4.3	1.9	8.1	2.4	3.4	1.7	1.4	2.4	1.3	4.5	3.2	4.6
26	5.0	1.6	6.8	2.4	2.9	1.7	1.6	2.3	1.2	3.0	3.2	4.0
27	3.8	1.6	4.0	2.1	2.5	1.6	2.3	2.1	1.0	3.4	3.1	3.5
28	3.5	1.5	3.7	2.0	2.1	1.6	3.4	1.9	0.9	3.9	2.7	2.8
29	3.3	-----	7.0	1.8	1.9	1.7	2.0	1.7	0.8	3.0	2.6	2.4
30	3.0	-----	7.0	1.8	1.8	1.6	1.9	1.6	0.7	2.9	2.5	1.9
31	3.0	-----	5.0	-----	1.7	-----	1.7	1.5	-----	2.7	-----	1.9

1899.

1	1.8	2.1	5.0	5.0	2.0	2.1	2.0	1.7	0.7	1.0	1.4	1.1
2	1.7	1.8	4.8	4.5	3.0	3.0	1.8	1.2	0.8	0.9	3.5	1.4
3	1.6	2.6	5.5	4.0	2.8	2.9	1.5	1.0	0.7	0.9	3.0	1.3
4	3.4	6.0	5.5	3.8	3.1	2.5	1.2	1.0	0.7	0.8	2.7	1.2
5	4.8	6.0	8.5	3.5	2.9	2.0	1.5	4.0	0.7	0.8	2.6	1.3
6	4.8	4.6	7.0	3.2	2.8	1.9	1.4	3.0	0.5	0.7	2.1	1.3
7	4.7	4.4	6.0	3.0	2.6	1.7	1.4	2.3	0.4	0.7	1.6	1.2
8	4.5	4.0	5.1	6.5	2.5	1.6	1.3	1.9	0.5	0.7	1.8	1.2
9	4.4	3.7	4.5	5.5	4.3	1.5	4.0	1.5	1.0	0.7	1.7	1.2
10	4.0	3.0	5.0	4.6	3.5	2.1	2.6	1.3	0.8	0.7	1.4	1.1
11	3.7	2.5	4.5	4.4	3.2	3.8	2.0	1.3	2.8	0.6	1.4	0.9
12	3.0	2.2	4.5	4.0	3.7	3.1	1.4	2.4	4.4	0.6	1.6	3.6
13	3.1	2.0	4.5	3.7	3.1	2.7	1.1	1.1	2.8	0.6	1.6	4.1
14	4.7	1.8	4.2	3.5	3.0	2.3	2.5	0.8	2.0	0.5	1.4	3.9
15	8.5	1.6	3.8	3.3	2.7	2.7	1.7	1.0	1.6	0.5	1.2	3.5
16	6.0	1.6	4.3	3.1	2.5	4.0	1.6	0.9	1.4	0.4	1.1	3.0
17	5.7	1.8	3.7	3.4	5.5	2.7	2.0	0.8	1.2	0.4	0.9	2.4
18	4.7	3.5	3.4	3.1	9.5	2.5	4.0	0.8	1.0	0.4	0.8	2.1
19	4.5	3.6	4.4	2.9	8.9	2.2	2.8	0.7	1.0	0.3	1.3	2.2
20	4.2	3.3	5.5	2.8	6.2	2.1	2.0	0.6	1.3	0.3	3.2	2.8
21	4.0	4.4	4.6	2.6	5.0	1.9	1.8	0.6	1.5	0.3	1.9	2.4
22	3.9	6.0	4.5	2.5	4.5	1.8	1.5	0.6	1.5	0.3	1.7	2.1
23	3.7	7.0	5.0	2.3	3.5	1.6	1.3	0.5	1.3	0.3	1.8	1.9
24	3.5	5.5	4.5	2.2	3.4	1.7	1.2	0.5	1.0	0.3	3.9	2.4
25	5.5	4.5	4.5	2.6	3.0	1.8	1.0	0.5	1.0	0.3	3.2	2.6
26	4.5	4.2	4.3	2.8	2.7	1.8	1.6	0.4	1.0	0.2	2.7	2.0
27	4.4	7.5	3.9	2.9	2.5	1.6	1.6	0.8	1.3	0.2	2.2	1.6
28	4.0	6.0	4.5	2.6	2.2	2.6	1.4	1.5	1.2	0.1	1.8	1.4
29	3.5	-----	8.5	2.3	2.0	1.4	1.3	1.4	1.1	0.1	1.5	1.4
30	3.0	-----	6.5	2.1	2.8	2.6	1.3	1.0	1.0	0.2	1.2	1.3
31	2.5	-----	5.5	-----	2.4	-----	1.9	0.8	-----	0.2	-----	1.2

DAILY RIVER STAGES.

317

Ohio River system (Monongahela River branch)—Youghiogheny River, West Newton, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	1.0	3.5	7.1	1.5	1.8	1.0	6.1	0.3	6.0	1.0	3.1
2	1.5	1.0	3.4	5.9	1.3	1.6	0.9	4.5	0.3	3.8	0.9	2.6
3	1.3	5.4	2.8	5.3	1.3	1.3	0.8	3.4	0.2	2.5	0.8	2.1
4	0.9	4.5	2.1	4.2	1.2	1.1	0.7	2.8	0.2	1.7	0.7	1.7
5	Frozen.	3.5	1.8	3.5	1.5	1.0	0.8	1.9	0.2	1.5	1.1	1.4
6		3.6	1.5	3.1	1.5	1.1	2.5	1.7	0.2	1.3	6.7	1.4
7		5.2	2.0	2.8	1.3	1.0	3.4	1.3	0.2	1.1	3.6	1.4
8		4.1	1.8	2.2	1.2	1.2	1.9	2.1	0.2	1.0	3.0	1.3
9		3.5	1.5	3.0	1.0	1.8	1.5	1.6	0.3	0.9	2.4	1.6
10		3.0	2.1	2.8	0.9	1.3	2.1	1.9	0.3	0.8	2.0	4.7
11		2.4	2.0	2.5	0.7	1.1	1.7	1.5	0.2	0.8	1.5	4.1
12		2.1	2.3	3.8	0.9	1.3	1.4	1.2	0.2	0.7	2.5	3.2
13		2.3	1.8	3.9	0.8	1.0	1.0	1.8	0.2	0.7	1.9	2.4
14		5.0	1.5	3.6	1.0	1.0	1.0	1.6	0.2	0.7	1.7	2.1
15		5.9	1.9	3.1	1.7	0.9	1.0	1.1	0.2	1.1	1.5	1.7
16		4.3	2.0	2.7	1.4	0.9	2.1	1.0	0.6	0.9	1.6	1.8
17		3.5	1.8	2.4	1.1	1.0	3.9	0.7	0.5	0.8	1.4	2.0
18		2.8	2.0	2.0	0.9	1.3	2.5	0.7	0.4	0.7	1.3	1.5
19		2.0	2.0	1.7	0.8	1.5	1.8	0.6	0.4	1.1	1.2	1.3
20		1.7	4.5	1.6	0.9	1.3	1.3	0.6	0.5	1.2	1.3	1.1
21		Frozen.	3.3	2.0	0.7	1.0	1.5	0.5	0.9	1.9	1.2	1.0
22			2.8	2.2	1.0	0.9	2.1	0.5	0.7	2.4	1.1	0.8
23			4.2	1.8	1.6	0.8	7.0	0.5	1.0	1.9	2.4	0.8
24	2.7		3.1	1.5	1.2	0.9	5.5	0.5	0.8	2.6	2.3	0.7
25	2.8		3.0	1.8	1.4	1.5	16.2	0.4	0.6	3.9	1.9	0.6
26	3.6		3.2	1.7	1.0	2.6	10.4	0.4	0.6	3.0	1.7	0.6
27	2.8		7.0	1.4	1.0	1.8	5.7	0.4	0.5	2.5	0.5	0.6
28	2.3	2.5	6.1	1.4	2.1	1.5	13.1	0.3	0.5	1.9	1.6	0.6
29	1.8	2.5	5.6	1.3	2.0	1.2	9.0	0.3	0.4	1.6	2.5	0.5
30	1.4		11.9	1.4	3.7	1.0	6.4	0.3	1.2	1.3	4.0	0.9
31	1.2		10.3		2.3		7.5	0.3		1.1		1.1

1897.

1	1.0	Frozen.	2.8	2.2	1.0	0.8	0.5	0.5	0.0	0.2	-0.2	1.7
2	1.0		2.2	1.8	1.7	0.7	0.4	0.5	0.0	0.2	-0.2	1.4
3	2.4		2.5	1.7	6.4	0.7	0.4	0.5	0.0	0.2	0.0	1.1
4	2.3		5.0	1.6	3.3	0.6	0.3	0.5	0.1	0.2	0.0	0.8
5	2.5		6.1	1.7	2.5	0.6	0.3	1.3	0.0	0.2	0.4	1.5
6	2.7		8.0	1.6	3.7	0.5	0.3	1.9	0.0	0.1	0.6	6.5
7	2.8		7.4	2.1	3.3	0.8	0.5	1.4	0.0	0.1	0.4	3.1
8	2.3	5.2	5.4	1.8	2.8	0.7	0.4	1.0	0.0	0.1	0.4	2.8
9	2.0	4.5	4.3	3.0	2.3	0.9	0.3	0.8	0.0	0.1	0.5	2.5
10	1.8	2.8	3.8	7.6	2.0	0.7	0.3	0.7	0.0	0.1	1.0	2.2
11	1.7	2.1	3.4	6.1	1.9	0.7	0.2	0.6	0.0	0.1	2.1	1.9
12	1.6	2.5	3.4	4.2	1.8	0.7	0.2	0.6	0.0	0.1	1.7	1.6
13	1.4	3.9	2.9	3.6	3.9	0.6	0.2	0.5	0.0	0.0	1.4	1.4
14	1.2	3.5	2.4	2.9	6.3	0.5	0.1	0.4	0.0	0.0	1.2	1.1
15	1.2	5.6	2.1	4.5	5.4	0.5	0.0	0.4	0.0	0.0	2.5	2.4
16	1.0	5.2	2.4	5.7	4.3	0.4	0.0	0.4	-0.1	0.0	3.6	4.9
17	1.0	4.5	2.1	4.2	3.2	0.4	0.0	0.3	-0.1	-0.1	3.2	3.4
18	2.0	4.7	1.8	3.1	2.7	0.6	0.0	0.3	-0.1	-0.1	2.7	2.9
19	2.4	5.4	3.6	2.8	2.3	0.9	0.1	0.2	-0.1	-0.1	2.2	2.6
20	2.0	4.7	5.0	2.4	1.9	1.5	0.9	0.2	-0.1	-0.1	2.0	2.3
21	3.2	4.1	4.9	2.1	1.6	1.3	1.5	0.2	0.0	-0.1	1.0	3.5
22	3.4	10.0	3.9	1.9	1.5	1.1	0.9	0.2	0.0	-0.2	1.5	3.6
23	3.0	12.9	4.7	1.7	1.4	1.0	0.7	0.2	0.0	-0.2	1.2	3.4
24	2.7	14.0	4.7	1.5	1.2	1.0	0.6	0.2	-0.1	-0.2	1.0	2.7
25	2.4	7.8	5.4	1.3	1.2	0.8	0.8	0.1	-0.1	-0.2	0.8	Frozen.
26	Frozen.	5.5	4.5	1.2	1.3	0.8	0.7	0.1	-0.1	-0.2	0.8	2.1
27		4.6	3.7	1.4	1.2	0.7	0.6	0.1	0.6	-0.2	1.0	1.9
28		3.9	3.2	1.3	1.1	0.7	0.8	0.1	0.4	-0.2	3.9	1.7
29			2.9	1.2	1.0	0.6	0.7	0.0	0.3	-0.2	2.9	1.5
30			2.6	1.1	0.9	0.5	0.6	0.0	0.3	-0.2	2.4	1.5
31			2.1		0.9		0.6	0.0		-0.2		1.3

1 22.0 during day.

DAILY RIVER STAGES.

Ohio River system (Monongahela River branch)—Youghiogheny River, West Newton, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.7	1.9	1.3	4.9	2.0	1.0	0.4	0.7	0.7	0.2	1.3	1.4
2	1.5	1.7	1.6	3.9	1.8	0.9	0.3	1.2	0.6	0.1	1.1	1.2
3	1.3	Frozen.	1.5	3.1	1.6	0.9	0.3	1.0	0.5	0.1	1.0	1.3
4	Frozen.		1.5	2.8	1.5	0.8	0.3	0.9	0.5	0.1	1.0	1.1
5			1.3	2.5	1.3	0.8	0.2	1.8	0.5	0.1	1.0	1.9
6			1.0	2.1	1.2	0.8	0.2	4.3	0.6	0.1	1.0	2.2
7	2.9		0.9	2.3	1.1	0.7	0.1	3.3	0.8	0.1	1.0	1.6
8	2.7		0.8	2.1	4.0	0.7	0.1	1.7	0.7	0.3	1.5	1.2
9	4.2		2.0	3.2	3.4	0.6	0.1	2.7	0.7	0.5	1.2	1.0
10	5.8		2.0	2.5	2.8	0.6	0.0	6.6	0.7	0.7	1.1	0.9
11	7.6	5.8	1.8	2.0	2.4	0.5	0.0	10.1	0.7	0.3	4.6	Frozen.
12	5.6	4.9	1.7	1.7	2.0	0.5	0.0	5.8	0.6	0.7	3.8	0.9
13	7.8	4.1	1.5	1.9	1.9	0.7	0.0	4.4	0.6	0.3	3.3	0.8
14	5.5	3.8	1.4	1.7	1.8	1.0	0.0	3.6	0.5	0.3	3.0	0.8
15	4.6	2.7	1.9	2.2	1.6	2.0	0.0	3.2	0.5	0.3	2.7	0.8
16	8.0	3.1	1.8	5.9	1.9	1.5	0.1	3.4	0.3	0.6	2.3	0.7
17	5.8	2.8	1.7	4.5	6.5	1.0	0.1	2.5	0.2	0.4	2.0	0.8
18	5.5	2.6	5.1	3.6	5.9	0.6	0.1	1.8	0.1	0.3	1.8	2.0
19	4.7	2.7	4.9	2.8	4.6	0.6	1.5	3.8	0.1	0.8	1.5	3.9
20	5.0	2.3	2.7	2.5	3.1	0.6	2.4	8.5	0.1	0.6	1.8	3.5
21	4.1	4.7	5.0	2.3	2.6	0.7	1.4	5.7	0.1	1.4	1.6	6.5
22	3.5	4.6	10.3	1.9	2.2	1.0	0.9	3.8	0.0	7.5	1.4	7.5
23	4.5	3.9	10.1	1.8	3.8	0.8	0.6	2.3	0.1	7.8	2.4	7.3
24	8.0	3.1	10.9	1.7	3.4	0.7	0.5	1.9	0.1	5.6	2.0	7.5
25	5.9	2.7	8.7	3.3	2.8	0.6	0.5	1.5	0.1	3.8	1.8	5.3
26	5.7	2.3	7.5	3.5	2.4	0.5	0.3	1.4	0.3	2.2	1.6	3.8
27	5.5	1.9	5.4	2.7	2.0	0.5	0.2	1.3	0.2	1.9	1.4	3.2
28	4.7	1.6	4.3	3.4	1.8	0.4	0.1	1.1	0.5	2.4	1.2	2.7
29	3.9		4.8	2.9	1.6	0.4	0.0	1.0	0.4	2.0	0.9	2.1
30	3.0		9.9	2.4	1.4	0.4	1.5	0.9	0.3	1.7	1.2	1.8
31	2.6		6.7		1.2		0.7	0.8		1.4		1.5

1899.

1	1.5	Frozen.	5.4	5.4	1.3	1.5	1.8	0.6	0.3	0.4	0.8	1.0
2	2.5		4.6	4.2	1.1	1.4	1.4	0.5	0.2	0.3	4.0	1.2
3	1.6		4.3	3.4	1.7	2.2	1.2	0.4	0.5	0.2	2.8	1.1
4	1.9	11.0	4.0	2.7	1.8	1.8	1.0	0.6	0.3	0.2	1.8	1.1
5	3.9	7.5	7.2	2.3	1.8	1.6	0.8	3.9	0.2	0.1	1.1	1.1
6	3.2	5.5	10.2	1.9	1.7	1.4	0.5	2.4	0.1	0.1	1.0	1.0
7	5.9	4.3	7.0	1.6	1.5	1.2	0.8	1.7	0.1	0.1	1.0	0.9
8	4.2	3.3	5.0	3.0	1.4	1.0	0.7	1.3	0.1	0.1	0.9	0.8
9	3.4	3.0	4.1	5.6	1.5	0.9	1.8	1.0	0.4	0.1	0.8	1.2
10	2.9	Frozen.	3.8	4.3	2.8	0.8	1.6	0.8	1.3	0.1	0.7	1.0
11	2.5		4.3	3.6	2.2	0.9	1.3	0.7	1.1	0.1	0.6	1.2
12	1.9		3.9	3.3	1.9	0.8	1.1	0.6	4.5	0.1	0.8	2.0
13	2.0		3.5	2.9	2.1	1.5	0.9	1.6	2.5	0.1	1.3	7.0
14	3.9		3.0	2.6	1.8	1.4	0.7	1.0	1.4	0.2	1.0	4.5
15	10.0		2.7	2.3	1.6	1.3	1.1	0.7	1.1	0.2	0.9	3.2
16	7.6		3.0	2.0	1.5	1.2	1.0	0.5	0.9	0.1	1.0	2.8
17	5.6		2.9	2.2	1.5	1.9	1.1	0.4	0.7	0.1	0.9	2.2
18	4.4		2.6	2.3	12.0	1.5	3.9	0.4	0.6	0.1	0.8	1.9
19	4.6		2.8	2.0	12.1	1.3	2.7	0.3	0.5	0.1	0.7	1.8
20	4.1		5.5	1.8	7.5	1.2	2.1	0.2	0.4	0.0	1.7	2.9
21	2.9		4.5	1.6	4.9	1.0	1.7	0.1	0.7	0.0	2.3	3.2
22	2.4	8.0	3.8	1.4	3.8	0.9	1.3	0.1	0.9	0.0	1.7	2.5
23	2.6	10.0	3.8	1.2	3.0	0.7	0.9	0.1	0.7	0.0	1.5	2.0
24	2.2	7.6	4.5	1.4	2.5	0.6	0.7	0.0	0.6	0.0	2.7	2.0
25	5.8	5.0	3.8	1.2	2.1	0.4	0.6	0.0	0.5	0.0	2.5	3.0
26	4.5	5.5	3.4	2.2	1.8	0.5	0.5	0.0	0.5	0.0	2.0	2.4
27	4.1	6.0	3.1	2.0	1.6	0.6	0.7	0.2	0.5	0.0	1.6	1.8
28	3.4	7.2	2.7	1.9	1.4	0.6	1.8	0.7	0.4	0.0	1.5	1.2
29	2.9		11.5	1.7	1.3	0.7	1.0	0.7	0.7	0.0	1.2	1.0
30	2.5		8.5	1.5	1.4	1.8	0.8	0.5	0.5	0.0	1.1	Frozen.
31	2.0		6.5		1.7		0.7	0.4		0.0		

118.2 at 6 p. m.

DAILY RIVER STAGES.

319

Ohio River system (Monongahela River branch)—McGees Run, Derry Station, Pa.

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1						0.0	0.0	0.0	0.0	0.0	0.0	0.0
2						0.0	0.0	0.0	0.0	0.0	0.0	0.0
3						0.0	0.0	0.0	0.0	0.0	0.0	0.0
4						0.0	0.0	0.6	0.0	0.0	0.0	0.0
5						0.0	0.0	0.0	0.0	0.0	0.0	0.4
6						0.0	0.0	0.0	0.0	0.0	0.0	0.2
7						0.0	0.0	0.0	0.0	0.0	0.0	0.1
8						0.0	0.0	0.0	0.0	0.0	0.0	0.1
9						0.0	0.0	0.0	0.0	0.0	0.0	0.1
10						0.0	0.0	0.0	0.0	0.0	0.0	0.1
11						0.0	0.0	0.0	0.0	0.0	0.0	0.1
12						0.0	0.0	0.0	0.0	0.0	0.0	0.1
13						0.0	0.0	0.0	0.0	0.0	0.0	0.1
14						0.0	0.0	0.0	0.0	0.0	0.0	0.1
15						0.0	0.0	0.0	0.0	0.0	0.0	0.5
16						0.0	0.0	0.0	0.0	0.0	0.1	0.2
17						0.0	0.0	0.0	0.0	0.0	0.3	0.2
18						0.0	0.0	0.0	0.0	0.0	0.1	0.3
19						0.0	0.3	0.0	0.0	0.0	0.0	0.2
20						0.0	0.2	0.0	0.0	0.0	0.0	0.2
21						0.0	0.1	0.0	0.0	0.0	0.0	0.9
22						0.0	0.0	0.0	0.0	0.0	0.0	0.5
23						0.0	0.0	0.0	0.0	0.0	0.0	0.5
24						0.0	0.0	0.0	0.0	0.0	0.0	0.6
25						0.0	0.0	0.0	0.0	0.0	0.0	0.6
26						0.0	0.0	0.0	0.0	0.0	0.0	0.5
27						0.0	0.0	0.0	0.0	0.0	0.5	0.4
28						0.0	0.0	0.0	0.0	0.0	0.3	0.2
29						0.0	0.0	0.0	0.0	0.0	0.1	0.2
30						0.0	0.0	0.0	0.0	0.0		0.2
31							0.0	0.0		0.0		0.2

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.3	0.2	0.2	0.4	0.2	0.2	0.2	0.0	0.2	0.0	0.1	0.2
2	0.2	0.2	0.2	0.4	0.2	0.2	0.1	0.0	0.2	0.0	0.1	0.2
3	0.2	Frozen.	0.2	0.4	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.2
4	0.2		0.2	0.4	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.2
5	0.2		0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.6
6	0.2		0.2	0.3	0.2	0.1	0.0	0.1	0.1	0.0	0.1	0.4
7	0.6		0.2	0.2	0.5	0.1	0.0	0.0	0.1	0.0	0.1	0.3
8	0.4		0.2	0.2	0.5	0.0	0.0	0.0	0.1	0.0	0.1	0.3
9	0.3	0.2	0.2	0.2	0.4	0.0	0.0	0.3	0.1	0.0	0.1	0.3
10	0.6	0.3	0.2	0.2	0.3	0.0	0.0	0.4	0.1	0.0	0.2	0.2
11	0.8	0.4	0.2	0.2	0.2	0.0	0.0	0.4	0.0	0.0	0.6	Frozen.
12	0.8	0.3	0.2	0.2	0.3	0.0	0.0	0.3	0.0	0.0	0.3	
13	0.8	0.3	0.2	0.2	0.3	0.0	0.0	0.2	0.0	0.0	0.2	
14	0.5	0.2	0.2	0.2	0.3	0.1	0.0	0.3	0.0	0.0	0.3	
15	0.7	0.2	0.2	0.3	0.3	0.7	0.0	0.3	0.0	0.0	0.2	
16	0.6	0.2	0.2	0.3	0.8	0.4	0.0	0.3	0.0	0.0	0.2	
17	0.3	0.2	0.2	0.2	0.6	0.3	0.0	0.5	0.0	0.0	0.2	
18	0.3	0.2	0.2	0.2	0.4	0.3	0.0	0.7	0.0	0.0	0.2	
19	0.2	0.2	0.2	0.2	0.4	0.3	0.1	1.2	0.0	0.0	0.2	
20	0.5	0.2	0.4	0.2	0.5	0.3	0.0	1.8	0.0	0.0	0.2	0.5
21	0.4	0.3	1.1	0.2	0.4	0.3	0.0	0.8	0.0	0.0	0.2	0.4
22	0.3	0.3	0.8	0.2	0.3	0.3	0.0	0.6	0.0	0.3	0.2	0.3
23	0.8	0.2	1.3	0.2	0.3	0.2	0.0	0.5	0.0	0.2	0.2	0.3
24	0.5	0.2	0.9	0.2	0.3	0.2	0.0	0.4	0.0	0.2	0.2	0.3
25	0.3	0.2	0.7	0.3	0.3	0.2	0.0	0.4	0.0	0.2	0.2	0.3
26	0.6	0.2	0.5	0.2	0.3	0.2	0.0	0.2	0.0	0.2	0.2	0.2
27	0.3	0.2	0.3	0.2	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2
28	0.2	0.2	0.3	0.2	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2
29	0.2		1.0	0.2	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2
30	0.2		0.7	0.2	0.2	0.2	0.0	0.1	0.0	0.2	0.2	0.2
31	0.2		0.5		0.2		0.0	0.2		0.1		0.2

DAILY RIVER STAGES.

Ohio River system (Monongahela River branch)—McGees Run, Derry Station, Pa.—Continued.

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	0.3	0.3	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0
2			0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.2
3			0.3	0.2	0.2	0.3	0.1	0.1	0.0	0.0	0.0	0.2
4	0.3	0.7	0.3	0.2	0.1	0.2	0.1	0.5	0.0	0.0	0.0	0.3
5	0.3	0.5	0.5	0.2	0.1	0.2	0.1	0.4	0.0	0.0	0.0	0.4
6	0.2	0.4	0.4	0.2	0.1	0.2	0.7	0.3	0.0	0.0	0.0	0.3
7	0.2	0.3	0.4	0.3	0.1	0.2	0.3	0.2	0.0	0.0	0.0	0.3
8	0.2	0.2	0.3	0.4	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.3
9	0.2	Frozen.	0.3	0.3	0.1	0.1	0.4	0.1	0.0	0.0	0.0	0.2
10	0.2		0.2	0.3	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.2
11	0.2		0.2	0.3	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.2
12	0.2		0.2	0.2	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.9
13	0.3		0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.4
14	0.7		0.2	0.2	0.1	0.1	0.3	0.1	0.0	0.0	0.0	0.4
15	0.5		0.2	0.2	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.4
16	0.4		0.3	0.2	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.3
17	0.3		0.2	0.2	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.3
18	0.2		0.3	0.2	0.9	0.0	0.3	0.0	0.0	0.0	0.0	0.3
19	0.2		0.5	0.2	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.3
20	0.2		0.4	0.2	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.4
21	0.2	0.7	0.3	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.4
22	0.2	0.6	0.3	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.3
23	0.3	0.5	0.3	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.7	0.3
24	0.3	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.7
25	0.6	0.2	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.4
26	0.5	0.5	0.2	0.7	0.1	0.0	0.1	0.0	0.0	0.0	0.0	Frozen.
27	Frozen.	0.4	0.2	0.4	0.1	0.0	0.1	0.3	0.0	0.0	0.0	
28		0.3	0.5	0.3	0.1	0.0	0.1	0.2	0.0	0.0	0.0	
29			0.6	0.2	0.1	0.7	0.1	0.1	0.0	0.0	0.0	
30			0.4	0.2	0.4	0.2	0.2	0.0	0.0	0.0	0.0	
31			0.3		0.2		0.1	0.0		0.0		

DAILY RIVER STAGES.

321

Ohio River system (Monongahela River branch)—Brush Run, Irwin, Pa.

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.8	0.5	0.9	0.8	0.6	0.3	0.2	0.1	0.2	0.1	0.0	0.5
2	0.7	0.7	0.8	0.7	1.8	0.3	0.2	0.1	0.2	0.1	0.2	0.4
3	0.6	0.7	1.4	0.6	1.2	0.3	0.2	0.1	0.2	0.1	0.2	0.4
4	0.6	0.7	1.0	0.5	1.0	0.6	0.2	0.4	0.1	0.1	0.2	0.4
5	1.0	0.6	2.7	0.6	0.9	0.5	0.2	0.3	0.1	0.1	0.1	1.5
6	0.6	1.8	2.2	0.6	0.8	0.4	0.4	0.3	0.1	0.1	0.1	0.8
7	0.6	2.6	1.4	0.6	0.7	0.5	0.3	0.2	0.1	0.1	0.1	0.6
8	0.5	1.8	1.2	0.6	0.6	0.4	0.3	0.1	0.1	0.1	0.3	0.6
9	0.5	1.3	1.1	2.5	0.5	0.3	0.3	0.1	0.0	0.1	0.7	0.5
10	0.5	1.1	1.2	1.5	0.6	0.3	0.3	0.2	0.0	0.1	0.3	0.5
11	0.4	1.0	1.1	1.2	0.6	0.3	0.3	0.1	0.0	0.1	0.2	0.5
12	0.4	1.5	1.0	1.1	0.8	0.3	0.3	0.1	0.0	0.1	0.2	0.5
13	0.4	1.7	0.8	0.9	1.0	0.3	0.3	0.1	0.0	0.0	0.1	0.5
14	0.3	1.4	0.9	0.9	1.0	0.3	0.3	0.1	0.0	0.0	0.1	0.4
15	0.3	1.9	0.8	2.2	0.9	0.3	0.3	0.1	0.0	0.0	1.0	1.4
16	0.3	1.6	0.7	1.5	0.8	0.5	0.3	0.1	0.0	0.0	0.8	1.1
17	0.6	1.3	0.6	1.3	0.8	0.4	0.3	0.1	0.0	0.0	0.5	0.9
18	0.8	1.3	0.8	1.0	0.7	0.3	0.4	0.1	0.0	0.0	0.7	1.3
19	0.6	1.1	1.0	0.9	0.6	0.8	0.4	0.1	0.1	0.0	0.4	0.9
20	0.5	1.0	2.0	0.8	0.5	0.5	0.4	0.1	0.1	0.0	0.4	0.8
21	0.8	1.3	1.4	0.8	0.5	0.4	0.3	0.1	0.1	0.0	0.3	2.0
22	0.6	1.7	1.1	0.6	0.5	0.4	1.0	0.1	0.1	0.0	0.3	1.3
23	1.0	3.3	1.3	0.5	0.5	0.3	0.3	0.5	0.5	0.0	0.3	1.0
24	1.2	2.0	3.2	0.5	0.5	0.6	0.3	0.2	0.2	0.0	0.2	1.0
25	1.2	1.3	1.8	0.5	0.6	0.4	0.3	0.1	0.1	0.0	0.2	0.7
26	1.0	1.2	1.4	0.6	0.6	0.3	0.2	0.1	0.1	0.0	1.6	0.6
27	1.0	1.2	1.3	0.6	0.5	0.3	0.2	0.1	0.1	0.0	1.0	0.6
28	0.8	1.2	1.1	0.6	0.4	0.3	0.2	0.1	0.1	0.0	0.7	0.5
29	0.8	-----	1.0	0.6	0.4	0.3	0.1	0.1	0.1	0.0	0.5	0.5
30	0.6	-----	0.9	0.5	0.4	0.2	0.1	0.1	0.1	0.0	0.5	0.5
31	0.6	-----	0.8	-----	0.4	-----	0.1	0.1	-----	0.2	-----	0.8

1898.

1	0.6	0.8	0.6	1.2	0.5	0.6	0.2	0.1	0.1	0.2	0.4	0.5
2	0.5	0.7	0.6	1.0	0.5	0.6	0.2	0.1	0.1	0.2	0.4	0.4
3	0.5	0.6	0.6	1.0	0.4	0.5	0.2	0.1	0.1	0.2	0.4	0.4
4	0.5	0.6	0.6	0.8	0.4	0.4	0.2	0.1	0.1	0.2	0.4	0.4
5	0.6	0.6	0.7	0.8	0.4	0.4	0.2	0.1	0.1	0.2	0.4	0.8
6	2.0	0.6	0.6	0.8	0.4	0.4	0.2	0.1	0.1	0.2	0.4	1.8
7	1.5	0.6	0.6	0.7	0.8	0.4	0.2	0.1	0.3	0.2	0.5	0.9
8	1.8	0.7	0.6	0.7	1.0	0.3	0.2	0.1	0.3	0.2	0.4	0.9
9	2.0	0.7	0.6	0.7	0.5	0.2	0.2	0.4	0.3	0.2	0.3	1.0
10	2.0	1.0	0.6	0.8	0.4	0.2	0.2	0.3	0.2	0.2	0.4	0.9
11	2.6	1.0	0.6	0.7	0.4	0.2	0.1	0.2	0.2	0.2	0.5	0.8
12	2.1	1.0	0.7	0.7	0.4	0.2	0.1	0.2	0.2	0.2	1.5	0.6
13	1.5	0.9	0.7	0.6	0.4	0.2	0.1	0.1	0.2	0.2	1.0	0.4
14	1.9	0.8	0.6	0.6	0.4	1.1	0.1	0.1	0.1	0.3	0.9	0.4
15	1.7	0.8	0.5	0.7	0.5	0.9	0.5	0.2	0.1	0.3	0.8	0.4
16	1.3	0.9	0.5	0.6	2.5	0.7	0.3	0.2	0.1	0.4	0.6	0.6
17	1.1	0.9	0.6	0.8	1.6	0.4	0.2	0.1	0.1	0.3	0.6	0.8
18	1.0	1.0	0.6	0.7	1.0	0.3	0.2	1.0	0.1	0.3	0.6	0.6
19	1.0	1.0	0.5	0.6	0.9	1.6	0.2	1.5	0.1	0.3	0.5	0.6
20	1.3	1.0	1.0	0.5	0.8	1.0	0.2	1.0	0.1	0.3	0.5	1.8
21	1.2	1.6	3.3	0.5	0.8	0.8	0.2	0.7	0.1	0.3	0.5	0.8
22	2.9	1.4	3.3	0.5	0.8	0.5	0.2	0.5	0.1	1.7	0.5	1.6
23	1.3	1.1	4.5	0.5	3.0	0.4	0.2	0.4	0.3	1.0	0.6	1.4
24	1.1	0.9	3.0	1.4	1.6	0.3	0.2	0.3	0.3	0.5	0.6	0.8
25	1.1	0.8	1.8	0.8	1.0	0.3	0.2	0.3	0.3	0.5	0.5	0.8
26	1.1	0.8	1.4	0.7	1.0	0.7	0.2	0.3	0.3	0.5	0.5	0.8
27	1.1	0.7	1.3	0.6	0.9	0.3	0.2	0.3	0.2	0.5	0.5	0.7
28	1.0	0.6	1.4	0.6	0.8	0.3	0.1	0.2	0.2	0.5	0.5	0.6
29	1.0	-----	2.8	0.5	0.8	0.3	0.1	0.2	0.2	0.4	0.5	0.6
30	1.0	-----	1.8	0.5	0.7	0.2	0.1	0.2	0.2	0.4	0.5	0.6
31	1.0	-----	1.3	-----	0.7	-----	0.1	0.2	-----	0.4	-----	0.8

DAILY RIVER STAGES.

*Ohio River system (Monongahela River branch)—Brush Run, Irwin, Pa.—Continued.***1899.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.8	0.6	1.4	1.2	0.4	0.4	0.5	0.3	0.1	0.1	1.1	0.2
2	0.6	0.6	2.4	1.1	0.4	0.8	0.5	0.3	0.1	0.1	0.4	0.4
3	0.7	0.5	1.4	1.0	0.4	0.7	0.4	0.3	0.1	0.1	0.3	0.3
4	1.0	2.0	1.4	0.8	0.4	0.5	0.3	1.3	0.1	0.1	0.2	0.5
5	1.0	1.2	3.7	0.8	0.3	0.5	0.3	0.5	0.1	0.1	0.2	0.4
6	1.6	1.1	1.9	0.6	0.3	0.5	0.3	0.4	0.1	0.1	0.2	0.3
7	2.0	1.0	1.4	0.6	0.3	0.7	0.6	0.3	0.1	0.1	0.2	0.3
8	1.0	0.9	1.2	1.0	0.3	0.7	0.5	0.2	0.1	0.1	0.2	0.3
9	1.0	0.8	1.4	1.0	0.3	0.8	0.4	0.2	0.1	0.1	0.2	0.3
10	0.9	1.7	1.4	1.0	0.3	0.6	0.4	0.2	0.1	0.1	0.2	0.3
11	0.8	1.7	1.2	1.0	0.3	0.6	0.3	0.5	0.4	0.1	0.2	0.3
12	0.8	1.4	1.0	0.9	0.3	0.5	0.3	0.5	0.2	0.1	0.5	2.3
13	0.8	1.2	1.0	0.9	0.3	0.5	0.4	0.3	0.1	0.1	0.3	1.3
14	2.8	1.0	0.9	0.8	0.3	0.5	0.3	0.3	0.1	0.1	0.2	0.8
15	1.8	0.8	0.8	0.6	0.3	0.5	0.3	0.3	0.1	0.1	0.2	1.3
16	1.6	0.7	0.8	1.1	0.3	0.4	0.3	0.3	0.1	0.1	0.2	1.0
17	1.4	0.6	0.8	0.7	1.0	0.4	0.9	0.2	0.1	0.1	0.2	0.8
18	1.0	0.7	1.0	0.6	1.8	0.4	0.6	0.2	0.1	0.1	0.2	0.8
19	0.9	1.0	1.0	0.6	1.0	0.4	0.5	0.2	0.1	0.1	0.2	0.8
20	0.8	1.4	1.4	0.5	0.8	0.4	0.4	0.1	0.1	0.1	0.2	1.0
21	0.8	2.5	1.0	0.5	0.6	0.4	0.4	0.1	0.1	0.1	0.2	0.9
22	0.9	3.6	1.0	0.5	0.6	0.3	0.3	0.1	0.1	0.1	0.2	0.8
23	0.8	1.7	1.0	0.5	0.5	0.3	0.3	0.1	0.1	0.1	0.8	0.9
24	1.0	1.2	0.9	0.4	0.5	0.3	0.3	0.1	0.1	0.1	0.6	1.0
25	1.0	1.1	1.0	0.4	0.5	0.5	0.2	0.1	0.1	0.1	0.5	1.0
26	1.2	1.5	1.0	0.4	0.5	0.4	0.5	0.1	0.1	0.1	0.5	0.6
27	1.0	2.4	1.0	0.4	0.4	0.4	9.4	9.1	0.1	0.1	0.4	0.8
28	0.9	1.5	1.5	0.4	0.4	0.4	0.4	0.2	0.1	0.1	0.3	0.5
29	0.8	-----	2.4	0.4	0.4	1.0	0.4	0.1	0.1	0.1	0.3	0.5
30	0.8	-----	1.4	0.4	0.4	0.5	0.9	0.1	0.1	0.1	0.2	0.5
31	0.6	-----	-----	-----	0.4	-----	0.5	0.1	-----	0.1	-----	0.4

DAILY RIVER STAGES.

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*Ohio River system—Muskingum River, Zanesville, Ohio.***1897.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1							6.6	6.1	5.4	4.8	5.3	8.5
2							6.8	5.9	5.5	4.8	5.6	7.7
3							6.9	5.7	5.5	4.8	5.5	7.2
4							5.8	5.5	5.4	4.7	5.4	6.8
5							5.6	5.5	5.4	4.8	5.4	7.0
6							5.5	5.7	5.3	4.8	5.6	7.0
7							5.8	5.8	6.3	4.8	5.5	7.1
8							6.1	5.6	5.2	4.7	5.9	7.2
9							5.9	5.5	5.0	4.8	6.0	7.0
10							5.5	5.4	5.0	4.6	6.1	6.8
11							5.9	5.3	4.9	4.6	6.0	6.8
12							6.5	5.3	4.9	4.8	6.3	7.2
13							7.0	5.3	5.2	5.0	6.6	7.5
14							7.6	5.3	5.2	5.2	6.1	7.7
15							7.3	5.2	5.1	5.2	7.0	8.5
16							6.4	5.4	5.1	5.3	7.6	9.2
17							7.0	5.4	5.0	5.2	10.7	9.6
18							6.4	5.5	5.3	5.3	11.0	9.4
19							7.0	5.7	5.1	5.2	10.2	9.6
20							7.2	5.7	5.4	5.2	8.6	9.2
21							7.2	5.5	5.3	5.2	7.7	8.7
22							7.2	5.4	5.3	5.2	7.1	8.3
23							8.6	5.4	5.0	5.3	6.5	8.2
24							9.2	5.3	5.0	5.2	6.6	7.8
25							7.7	5.3	4.9	5.2	6.5	7.5
26							7.0	5.2	4.9	5.3	6.5	7.4
27							7.3	5.1	5.0	5.2	8.8	7.3
28							6.7	5.1	5.0	5.3	10.5	7.2
29							7.0	5.0	4.9	5.2	10.6	7.2
30							6.6	5.3	4.8	5.1	9.7	7.1
31							6.2	5.5		5.1		7.2

1898.

1	7.1	10.5	10.0	14.0	9.7	8.0	6.5	8.2	8.0	6.8	7.5	7.7
2	6.9	9.1	9.5	11.9	9.0	7.7	6.4	8.5	7.9	6.7	7.5	7.7
3	6.8	8.1	9.2	10.7	8.7	7.5	6.3	8.3	7.5	6.7	7.4	7.8
4	6.5	8.0	9.1	11.0	8.4	7.3	6.2	8.4	7.3	6.7	7.3	7.7
5	6.6	8.4	9.0	10.4	8.3	7.1	6.1	8.2	7.3	6.6	7.3	8.4
6	6.8	8.5	9.0	9.9	8.2	7.0	6.1	9.1	7.5	6.7	7.5	9.1
7	7.6	8.4	9.1	9.5	8.5	7.0	6.0	9.8	7.6	6.7	11.8	9.9
8	8.2	8.1	9.2	9.3	9.9	6.9	6.0	8.7	7.6	6.8	11.5	9.7
9	10.5	8.4	9.4	9.1	10.6	7.0	6.0	8.4	7.4	7.0	10.4	8.3
10	13.1	8.5	9.5	8.9	10.4	7.0	6.0	8.1	7.2	7.0	10.2	8.4
11	12.6	9.4	9.2	8.8	9.3	7.7	6.2	8.6	7.2	6.8	15.0	7.9
12	12.6	12.6	9.0	8.7	9.2	7.9	6.9	9.3	7.0	6.9	15.1	8.0
13	15.6	15.7	11.0	8.5	14.3	8.4	6.9	8.0	6.8	6.8	14.6	8.2
14	16.9	15.3	13.6	8.4	13.7	9.0	6.9	7.9	6.7	6.8	13.7	8.1
15	16.2	15.1	12.8	9.7	12.7	9.5	7.0	7.7	6.7	6.8	12.2	8.0
16	17.1	14.5	13.2	9.7	16.6	9.8	7.6	7.5	6.7	6.8	10.9	7.9
17	15.7	13.0	13.1	9.2	17.7	9.0	7.6	7.2	6.8	6.9	10.0	8.0
18	14.7	11.8	12.8	8.7	17.5	8.1	8.2	9.4	6.7	7.0	9.4	8.0
19	13.3	11.5	11.9	8.4	16.3	7.4	7.7	9.2	6.6	7.2	9.0	8.0
20	14.2	12.1	13.6	8.4	16.6	7.2	7.8	10.0	6.7	7.4	8.7	8.5
21	18.2	17.1	19.6	8.7	14.7	7.0	7.7	11.3	6.6	7.5	8.5	14.6
22	17.3	17.3	20.5	8.9	14.0	6.8	7.6	10.7	6.8	7.8	8.4	16.4
23	20.5	17.0	25.8	8.6	14.2	6.6	7.5	9.0	6.8	9.0	8.3	16.4
24	22.4	16.3	35.9	8.7	12.3	6.5	7.4	8.0	6.9	10.2	8.1	16.4
25	20.0	15.1	35.7	15.2	11.2	6.5	7.2	7.6	7.1	9.9	8.0	14.7
26	20.4	13.0	32.3	19.5	10.1	6.5	7.9	7.6	7.0	8.9	7.8	12.6
27	19.8	11.5	26.4	16.0	9.4	6.5	8.0	7.5	6.9	8.3	7.7	11.2
28	18.4	10.6	22.0	14.4	8.8	6.5	8.5	7.2	6.9	8.0	7.6	10.1
29	17.0		19.6	13.0	8.6	6.9	8.0	7.0	6.8	7.9	7.6	9.2
30	14.2		17.1	11.4	8.7	6.8	8.3	6.9	6.7	7.8	7.6	8.8
31	11.7		15.3		8.3		7.8	8.0		7.6		9.4

DAILY RIVER STAGES.

Ohio River system—Muskingum River, Zanesville, Ohio—Continued.

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.5	7.5	14.2	16.8	7.5	12.0	6.3	6.4	5.7	6.0	6.1	6.2
2	10.0	7.2	13.8	15.9	7.2	12.1	6.2	6.4	5.7	5.9	6.1	6.1
3	8.9	7.0	14.1	14.0	7.1	11.3	6.1	6.5	5.7	5.9	6.1	6.1
4	9.0	7.5	14.1	12.0	7.0	10.3	6.0	6.2	5.8	5.9	6.0	6.2
5	11.0	7.5	17.3	10.9	6.8	9.2	6.0	6.5	6.1	5.8	6.0	6.0
6	15.7	7.8	17.1	10.3	6.8	8.2	5.9	8.0	5.9	5.8	6.0	6.1
7	14.6	9.2	16.2	10.0	6.8	7.7	5.9	7.5	5.8	5.8	6.0	6.1
8	12.3	9.0	15.2	10.8	7.0	7.7	6.0	7.1	5.8	5.8	6.1	6.2
9	11.5	8.7	13.9	12.0	7.0	7.9	6.1	6.7	5.9	5.8	6.1	6.1
10	11.3	8.6	12.2	13.0	6.8	8.1	6.4	6.5	5.9	5.8	6.1	6.3
11	10.2	8.8	11.7	12.1	6.6	7.8	6.4	6.2	5.9	5.7	6.0	6.3
12	9.2	9.2	12.2	11.0	6.7	7.4	6.1	6.0	5.9	5.7	6.0	6.5
13	9.2	9.0	12.5	10.4	6.9	7.0	6.0	5.9	5.8	5.7	6.0	7.5
14	13.8	9.0	11.6	10.3	6.6	6.8	6.2	5.8	5.7	5.7	6.0	8.8
15	19.6	8.8	10.8	9.8	6.5	7.7	6.1	5.9	5.7	5.7	6.0	9.0
16	20.0	8.7	10.2	9.4	6.4	7.8	6.4	5.9	5.7	5.7	6.0	8.4
17	19.3	8.8	9.8	9.0	6.5	6.6	8.1	5.7	5.6	5.8	6.0	8.8
18	18.8	8.5	9.6	8.6	6.7	6.5	7.5	5.8	5.7	5.8	6.2	8.2
19	16.8	8.8	10.9	8.5	9.5	6.4	7.2	5.9	5.7	5.8	6.3	7.7
20	13.2	10.0	13.8	8.5	10.1	6.8	7.5	5.8	5.9	5.8	6.2	10.1
21	11.4	11.8	14.1	8.2	9.0	12.0	6.8	5.8	6.0	5.8	6.2	11.7
22	10.6	11.8	13.8	8.0	7.9	11.1	6.4	5.8	5.9	5.8	6.2	11.5
23	10.0	14.0	14.3	7.9	7.3	9.7	6.0	5.8	5.9	5.8	6.2	10.1
24	9.8	13.8	17.1	7.8	7.0	7.9	6.0	5.7	5.8	5.8	6.2	8.8
25	9.7	12.7	16.0	7.6	6.7	8.1	5.9	5.7	5.8	5.9	6.2	8.3
26	9.8	11.0	15.9	8.0	6.6	7.5	7.5	5.7	5.9	5.9	6.2	7.6
27	10.0	13.0	15.1	8.6	6.5	7.3	6.7	5.7	5.9	5.8	6.2	7.3
28	9.1	14.7	15.0	8.8	6.5	7.2	6.7	5.8	5.9	5.6	6.2	7.1
29	8.5	-----	17.5	8.3	8.1	6.7	6.5	5.7	6.0	5.7	6.2	7.0
30	7.8	-----	17.0	8.0	12.5	6.5	6.9	5.7	6.0	6.0	6.2	6.9
31	6.8	-----	16.8	-----	11.9	-----	6.8	5.7	-----	6.1	-----	6.7

M 70 U

DAILY RIVER STAGES.

825

Ohio River system—Great Kanawha River. Charleston, W. Va.
1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.7	4.3	4.5	23.7	5.9	5.2	5.7	7.9	4.8	7.6	5.0	11.6
2	5.7	4.3	5.1	22.0	6.4	4.9	5.0	8.3	4.7	10.9	4.9	10.4
3	5.9	7.8	5.4	21.6	7.0	4.6	4.5	8.0	4.7	7.6	4.8	8.0
4	5.8	9.4	5.2	14.5	7.3	4.7	3.7	7.5	4.8	6.0	4.8	6.8
5	5.1	12.0	5.1	9.6	7.7	4.8	4.0	6.4	4.7	5.3	4.9	6.2
6	3.3	9.6	4.6	7.8	7.3	5.0	5.0	5.5	4.7	4.8	9.8	5.7
7	2.8	8.7	4.5	7.0	6.4	5.2	5.3	4.8	4.7	4.4	13.8	5.4
8	2.8	9.2	4.9	6.5	5.7	4.6	5.4	4.5	4.9	3.6	8.5	5.1
9	3.2	8.5	5.8	6.3	5.1	4.4	5.7	4.9	5.1	4.5	6.9	6.4
10	3.4	7.5	5.7	5.9	4.7	5.0	19.8	5.0	5.0	5.0	6.0	8.8
11	3.5	7.1	5.7	6.2	4.3	5.2	14.0	5.1	4.3	4.9	5.4	7.8
12	4.0	6.7	5.3	6.3	4.3	5.4	9.0	4.9	4.3	4.9	5.0	6.7
13	4.9	6.1	5.5	6.3	5.1	5.6	7.0	5.0	4.1	5.0	4.8	6.0
14	4.9	6.6	5.4	6.2	5.2	5.3	6.2	4.9	4.2	5.3	5.0	5.7
15	4.9	10.0	5.1	5.9	5.1	5.0	5.8	4.9	4.3	7.1	5.0	5.4
16	5.0	9.1	6.9	5.7	5.1	5.1	5.8	5.0	4.4	6.7	4.9	5.8
17	5.2	7.7	15.5	5.4	5.2	5.0	7.6	5.1	4.5	5.8	5.7	7.7
18	5.2	6.7	16.0	5.0	5.1	5.0	7.0	4.6	4.7	5.2	5.3	7.8
19	5.2	6.0	11.3	4.8	4.8	5.2	5.9	4.5	4.8	4.9	5.0	6.9
20	5.0	5.2	14.3	4.5	4.9	5.2	5.3	4.4	4.7	4.9	5.0	6.2
21	5.3	4.8	12.2	4.5	4.9	5.3	4.8	4.4	4.9	4.4	4.9	5.9
22	5.3	3.9	10.9	4.5	5.3	5.1	4.3	4.2	5.0	5.0	4.8	5.6
23	5.4	3.7	8.6	4.5	5.6	5.3	5.5	4.3	4.9	4.9	4.8	5.2
24	5.2	3.9	7.9	4.5	6.3	5.5	6.7	5.2	4.8	5.3	5.4	4.9
25	6.2	4.5	7.6	4.5	6.7	5.6	5.9	5.6	4.7	5.7	5.4	4.5
26	8.4	4.9	7.5	6.3	5.7	7.9	10.0	5.5	4.9	5.5	5.3	4.0
27	7.5	5.0	7.2	6.3	5.3	9.3	7.7	5.5	4.8	5.2	5.2	3.8
28	6.4	4.9	7.0	6.0	5.3	9.2	6.0	5.0	4.8	4.5	5.6	3.3
29	5.8	4.6	7.0	5.9	5.4	8.4	5.4	4.9	4.7	5.2	8.5	3.1
30	5.1	-----	11.6	5.6	5.4	6.7	4.8	5.2	4.9	5.2	9.4	3.5
31	4.6	-----	24.7	-----	5.2	-----	5.1	4.8	-----	5.0	-----	4.7

1897.

1	5.1	3.0	7.0	6.0	5.1	5.1	5.3	5.0	4.7	6.1	6.3	6.7
2	5.2	4.7	6.7	6.0	5.8	5.1	7.5	4.3	4.7	6.1	6.4	5.2
3	5.2	6.8	6.3	5.9	7.0	5.0	13.4	4.7	4.7	6.0	6.4	5.7
4	5.0	5.9	6.3	5.8	9.4	5.0	7.4	4.5	4.7	6.0	6.5	5.7
5	5.2	5.4	6.3	5.9	8.5	4.9	5.8	4.4	4.7	6.1	6.5	6.9
6	5.5	5.8	6.3	7.0	7.9	5.0	5.9	4.4	4.6	6.0	6.5	8.2
7	5.5	12.0	6.8	8.1	7.5	5.3	5.8	4.2	4.6	5.9	6.4	7.2
8	5.5	21.5	7.0	7.8	6.7	5.5	5.4	4.6	4.4	6.1	6.2	7.0
9	5.4	15.5	7.8	7.2	6.2	5.4	5.0	4.9	4.7	5.9	6.7	6.4
10	5.4	11.0	8.0	8.9	5.6	6.1	5.2	5.2	4.7	6.1	6.5	6.0
11	5.3	8.9	12.3	9.1	5.4	6.0	4.8	4.9	4.6	6.1	6.3	6.8
12	5.3	7.9	13.5	8.2	5.3	5.5	4.9	4.9	4.6	6.1	6.3	6.3
13	5.2	9.9	12.9	7.2	6.7	5.2	5.8	4.9	4.6	6.1	6.3	6.1
14	4.7	13.8	11.0	6.6	21.0	5.5	5.4	4.7	4.7	5.8	6.5	6.4
15	4.5	11.4	13.6	6.4	20.1	4.7	5.1	4.7	4.6	7.2	6.8	6.4
16	4.9	9.9	12.9	6.4	11.2	4.5	5.0	4.8	4.6	6.5	6.5	7.2
17	5.2	9.6	10.6	6.3	8.4	5.4	5.0	4.7	4.6	6.3	6.5	7.0
18	5.3	8.8	9.0	6.2	7.1	5.5	4.9	4.6	4.7	5.7	6.5	7.0
19	5.4	7.9	9.5	6.0	6.3	5.4	4.9	4.7	4.7	6.1	6.5	7.0
20	5.5	7.5	13.0	5.9	5.8	9.9	5.0	4.5	4.7	6.0	6.5	7.1
21	5.5	8.7	14.0	5.4	5.6	10.1	5.0	4.8	4.5	6.0	6.5	7.9
22	5.7	28.3	11.3	5.2	5.3	7.9	6.0	4.0	4.6	6.0	6.5	8.0
23	5.8	39.4	9.0	5.0	5.0	6.0	8.2	4.2	4.6	6.3	6.5	7.6
24	5.7	41.0	8.3	4.8	4.9	5.4	7.9	4.3	4.6	6.6	6.5	6.9
25	5.7	29.5	8.5	4.5	4.7	4.9	9.0	4.4	4.6	6.4	6.5	5.8
26	4.6	17.5	8.0	4.3	4.7	4.1	7.5	4.4	4.6	6.4	6.5	5.1
27	4.2	11.3	7.5	4.3	5.0	4.1	7.0	4.5	4.7	6.0	6.5	4.9
28	3.5	8.1	7.0	4.8	5.2	3.9	7.7	4.5	6.2	6.0	6.5	4.3
29	3.2	-----	6.7	5.0	5.0	3.8	7.0	4.5	6.1	6.2	6.9	3.7
30	3.2	-----	6.4	5.3	5.0	4.0	6.7	4.7	6.1	6.4	6.9	3.7
31	3.2	-----	6.2	-----	5.0	-----	5.6	4.5	-----	6.4	-----	3.9

Ohio River system—Great Kanawha River, Charleston, W. Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.1	5.4	4.6	17.0	5.6	4.5	6.7	6.8	6.8	6.4	4.8	4.7
2	4.3	4.8	4.4	12.0	4.9	4.4	6.7	6.8	6.8	6.4	4.9	5.0
3	4.5	4.0	4.4	9.5	4.5	6.0	6.7	6.4	6.6	6.5	4.9	4.9
4	4.0	3.0	4.4	7.8	4.3	6.7	6.6	7.0	6.6	6.5	4.8	4.8
5	3.8	3.0	4.3	7.0	4.1	6.7	6.5	9.0	6.6	6.5	5.3	5.0
6	3.9	3.0	4.0	6.7	4.1	6.7	6.3	11.2	6.0	6.5	6.9	6.8
7	4.2	4.3	3.8	6.5	7.2	6.7	6.7	9.4	7.9	8.2	7.0	8.0
8	4.4	4.0	3.8	6.5	14.8	6.7	6.7	6.8	7.2	7.4	7.0	6.9
9	5.2	4.4	3.8	6.3	11.8	6.6	6.7	6.8	7.0	6.9	7.1	6.1
10	6.8	4.7	3.8	6.2	9.0	6.7	6.7	17.9	6.4	6.8	7.0	5.5
11	13.1	5.6	3.8	6.0	7.0	5.2	6.7	31.0	6.4	6.5	7.0	4.8
12	11.1	6.2	4.0	6.8	6.3	5.9	6.6	25.3	6.3	6.5	8.0	4.4
13	8.6	6.4	4.2	9.8	6.0	6.8	6.4	12.5	6.4	6.5	8.0	4.5
14	7.1	6.4	4.2	8.0	5.8	6.5	6.2	8.0	6.3	6.8	7.5	4.3
15	6.8	6.1	4.5	8.7	5.3	6.7	6.4	6.8	6.4	6.6	7.3	3.9
16	10.0	5.8	4.5	10.5	5.2	6.8	6.2	6.1	6.4	6.6	7.3	3.8
17	12.9	5.3	4.5	11.0	6.8	6.9	6.2	5.4	6.4	6.6	7.0	3.7
18	9.4	4.9	7.4	8.9	6.7	6.6	6.5	5.0	6.4	6.6	7.0	3.7
19	7.0	4.9	8.5	7.5	6.7	7.0	7.3	4.5	6.5	6.8	7.7	5.9
20	6.2	5.4	9.8	6.9	6.0	7.6	7.0	6.4	6.4	8.4	10.8	6.8
21	5.7	7.4	8.4	6.2	5.8	7.4	6.9	6.6	6.5	7.2	11.3	7.8
22	5.5	7.9	7.8	5.8	5.0	7.0	6.9	6.9	6.5	7.9	8.7	7.6
23	9.0	7.4	6.8	5.5	5.7	6.8	6.5	6.9	6.5	20.0	7.8	7.1
24	9.5	6.5	7.4	5.3	11.1	6.7	7.0	6.5	6.7	13.8	7.0	8.3
25	8.5	5.8	12.3	5.8	10.0	6.8	7.0	6.3	8.0	8.6	6.5	8.9
26	8.5	5.4	14.6	6.0	8.4	6.8	7.6	6.8	6.0	7.0	6.2	7.5
27	8.5	5.0	12.0	6.8	6.9	6.4	7.2	6.4	4.8	6.0	5.8	6.6
28	8.5	4.8	10.0	6.8	6.0	6.8	7.0	6.4	4.2	5.8	5.3	6.0
29	7.4	-----	11.5	6.0	5.6	6.7	7.3	6.9	5.3	5.5	4.8	5.5
30	6.4	-----	17.6	5.8	5.0	6.7	7.6	6.9	5.3	5.0	4.8	5.2
31	5.8	-----	19.5	-----	4.7	-----	7.0	6.9	-----	4.9	-----	5.0

1899.

1	5.0	4.8	14.2	10.8	6.2	8.0	7.0	6.9	6.9	6.8	6.7	6.7
2	4.6	4.7	10.6	8.5	5.8	7.1	6.7	6.7	6.6	6.8	6.7	6.7
3	5.6	4.6	9.0	7.5	5.7	6.9	6.8	6.8	6.8	6.7	6.9	6.7
4	5.9	7.1	10.8	7.0	5.8	6.0	7.0	6.8	6.7	6.6	6.9	6.6
5	7.0	15.0	36.7	6.5	5.4	5.8	6.8	6.5	7.0	6.5	6.9	6.5
6	11.4	¹ 19.9	² 39.9	6.0	5.4	5.0	6.8	7.0	7.0	6.5	6.8	6.5
7	24.7	19.5	29.0	6.2	6.1	5.8	6.5	6.8	6.8	6.5	6.0	6.4
8	19.0	17.0	17.1	6.5	6.8	7.0	6.6	6.3	6.7	6.6	5.1	6.4
9	12.7	12.6	11.1	8.0	10.0	7.0	6.6	6.8	6.9	6.6	5.0	6.4
10	9.0	9.0	9.8	10.0	16.5	7.0	6.6	6.8	6.8	6.6	6.3	5.7
11	7.4	7.5	9.2	8.8	11.8	6.9	6.7	6.8	6.8	6.7	6.2	5.7
12	7.0	6.3	8.9	8.0	10.0	6.9	6.9	6.5	6.9	6.8	6.4	5.8
13	6.5	5.9	8.0	7.5	9.5	7.8	6.6	6.8	7.0	6.7	6.4	7.0
14	9.9	5.4	7.7	7.0	11.2	8.0	6.8	6.7	6.8	6.7	6.3	7.9
15	10.5	4.9	7.0	6.8	10.0	10.0	6.7	6.7	6.8	6.5	6.3	7.0
16	9.8	4.7	7.0	6.4	8.2	8.0	6.7	6.8	6.8	6.5	6.3	5.8
17	8.8	4.7	10.9	6.0	7.0	7.5	6.8	6.8	7.0	6.5	6.7	5.0
18	7.8	6.8	9.4	6.0	6.5	6.0	6.8	6.7	7.0	6.6	6.4	4.5
19	7.1	9.0	9.4	5.8	6.0	5.8	6.9	6.7	6.5	6.6	6.7	6.8
20	6.8	10.5	16.3	5.6	6.0	4.9	6.7	6.7	6.4	6.6	6.6	6.0
21	6.3	11.4	19.5	5.4	5.8	6.0	6.9	6.8	6.5	6.5	6.7	6.6
22	5.9	13.4	13.0	5.2	5.0	6.9	6.8	6.5	6.9	6.5	6.7	6.5
23	5.5	15.0	10.5	5.0	5.0	7.0	6.8	6.5	6.9	6.5	6.7	6.4
24	5.3	12.7	9.1	4.8	7.0	7.0	6.8	6.8	6.8	6.5	6.7	7.2
25	7.6	9.7	8.0	5.0	7.1	7.0	6.5	6.5	6.8	6.4	6.5	7.8
26	7.9	8.0	7.2	7.0	7.0	7.0	6.8	6.5	6.8	6.4	6.5	7.5
27	7.0	7.5	7.3	7.8	7.0	7.0	6.8	6.5	6.6	6.5	6.5	6.2
28	6.3	14.4	7.5	8.5	7.0	7.0	6.7	6.4	6.5	6.5	6.9	6.0
29	5.9	-----	22.0	7.0	7.0	7.0	7.0	6.4	6.7	6.6	6.6	3.6
30	5.4	-----	21.0	6.2	6.2	7.0	7.0	6.4	6.9	6.6	6.6	3.2
31	5.1	-----	14.5	-----	7.5	-----	6.8	6.6	-----	6.6	-----	3.2

¹ 20.0 feet during day.² 41.5 in early morning.

DAILY RIVER STAGES.

327

*Ohio River system—New River, Radford, Va.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.9	0.3	0.8	7.5	1.5	0.2						
2	0.8	0.3	0.7	10.0	1.0	0.1						
3	0.7	0.3	0.5	5.0	0.9	0.1						
4	0.6	2.7	0.4	2.9	1.0	0.5						
5	0.5	1.9	0.4	2.1	1.0	0.4						
6	0.5	1.5	0.4	1.8	1.0	0.4						
7	0.5	2.6	0.5	1.5	0.8	0.4						
8	0.4	2.0	0.4	1.3	0.6	0.4						
9	0.5	1.9	0.4	1.1	0.6	0.6						
10	0.5	2.1	0.4	1.2	0.5	0.5						
11	0.4	1.6	0.4	1.1	0.5	0.4						
12	0.4	1.3	0.6	1.0	0.4	0.4						
13	0.3	0.9	0.7	0.9	0.4	0.3						
14	0.3	1.1	0.6	0.8	0.5	0.3						
15	0.3	1.5	0.5	0.8	0.5	0.2						
16	0.2	1.5	0.6	0.8	0.5	0.2						
17	0.1	1.1	1.2	0.7	0.4	0.2						
18	0.2	0.9	1.3	0.7	0.3	0.3						
19	0.4	0.7	1.1	0.7	0.3	0.5						
20	0.3	0.6	1.8	0.7	0.3	0.4						
21	0.2	0.6	1.4	0.6	0.3	0.4						
22	0.2	Frozen.	1.1	0.6	0.4	0.4						
23	0.3		0.9	0.6	0.4	0.3						
24	1.5	0.9	0.9	0.5	0.5	0.3						
25	2.6	1.0	0.9	0.5	0.5	1.5						
26	1.8	0.9	0.8	0.5	0.4	1.3						
27	1.2	0.7	0.8	0.5	0.4	0.9						
28	0.9	0.5	0.8	0.5	0.4	0.7						
29	0.5	0.5	0.7	0.5	0.3	0.7						
30	0.4		2.4	0.4	0.2	0.7						
31	0.3		5.7		0.2							

1897.

1	0.6	0.3	1.7	1.1	0.8	0.5						
2	0.6	0.3	1.5	1.2	1.7	0.5						
3	0.5	1.0	1.5	1.1	1.6	0.5						
4	0.4	1.2	1.4	1.0	1.4	0.6						
5	0.5	1.1	1.4	1.4	1.0	1.0						
6	0.6	0.9	1.3	2.7	0.9	0.8						
7	0.5	8.0	1.9	2.0	0.8	0.8						
8	0.5	4.1	2.1	1.7	0.8	1.0						
9	0.4	2.9	1.9	1.6	0.8	1.4						
10	0.4	2.4	2.6	1.9	0.7	1.5						
11	0.4	2.0	5.6	1.8	0.7	1.0						
12	0.4	2.1	4.1	1.6	0.9	0.9						
13	0.3	3.9	3.6	1.4	1.0	0.8						
14	0.3	3.0	3.1	1.3	2.0	0.7						
15	0.4	2.2	4.3	1.3	1.7	0.6						
16	0.5	2.0	3.1	1.5	1.5	0.5						
17	0.5	2.0	2.7	1.4	1.0	0.4						
18	0.5	1.8	2.3	1.3	0.9	0.4						
19	0.5	1.5	2.1	1.3	0.8	0.3						
20	0.5	1.5	2.1	1.2	0.8	0.3						
21	0.7	3.5	2.2	1.0	0.8	0.7						
22	1.0	11.5	1.9	1.0	0.8	0.6						
23	1.0	10.5	1.7	0.9	0.8	0.6						
24	0.8	7.2	1.6	0.9	0.8	0.5						
25	0.7	4.0	1.6	0.8	0.7	0.5						
26	0.7	2.9	1.5	0.8	0.7	0.5						
27	0.6	2.4	1.5	0.7	0.6	0.4						
28	0.6	2.0	1.4	0.8	0.6	0.4						
29	0.5		1.3	0.8	0.5	0.4						
30	0.5		1.1	0.7	0.5	0.3						
31	0.4		1.1		0.6							

DAILY RIVER STAGES.

Ohio River system—New River, Radford, Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.6	0.7	0.1	1.7	0.2	0.4	.....	.....	.....	.....	.....	.....
2	0.5	0.7	0.1	1.4	0.2	0.3	.....	.....	.....	.....	.....	.....
3	0.5	0.7	0.1	1.1	0.2	0.3	.....	.....	.....	.....	.....	.....
4	0.5	Frozen.	0.1	0.8	0.2	0.3	.....	.....	.....	.....	.....	.....
5	0.4	0.6	0.2	0.7	0.2	0.2	.....	.....	.....	.....	.....	.....
6	0.4	0.6	0.3	1.8	0.3	0.2	.....	.....	.....	.....	.....	.....
7	0.4	0.5	0.3	0.9	1.3	0.2	.....	.....	.....	.....	.....	.....
8	0.3	0.4	0.2	0.7	1.1	0.2	.....	.....	.....	.....	.....	.....
9	0.3	0.4	0.2	0.6	0.8	0.1	.....	.....	.....	.....	.....	.....
10	0.3	0.3	0.1	0.5	0.5	0.1	.....	.....	.....	.....	.....	.....
11	0.3	0.3	0.1	0.5	0.4	0.1	.....	.....	.....	.....	.....	.....
12	0.3	0.3	0.1	0.4	0.3	0.2	.....	.....	.....	.....	.....	.....
13	0.4	0.2	0.1	0.4	0.4	0.2	.....	.....	.....	.....	.....	.....
14	0.4	0.2	0.0	0.4	0.4	0.2	.....	.....	.....	.....	.....	.....
15	0.5	0.2	0.0	0.9	0.3	0.1	.....	.....	.....	.....	.....	.....
16	0.5	0.2	0.0	1.1	0.3	0.1	.....	.....	.....	.....	.....	.....
17	0.5	0.2	0.2	0.9	0.2	0.5	.....	.....	.....	.....	.....	.....
18	0.4	0.2	0.2	0.9	0.2	1.6	.....	.....	.....	.....	.....	.....
19	0.3	0.3	0.3	0.7	0.2	1.9	.....	.....	.....	.....	.....	.....
20	0.6	0.4	0.3	0.6	0.2	1.8	.....	.....	.....	.....	.....	.....
21	0.7	0.4	0.3	0.5	0.1	0.8	.....	.....	.....	.....	.....	.....
22	0.7	0.4	0.2	0.4	0.2	0.5	.....	.....	.....	.....	.....	.....
23	0.7	0.3	0.2	0.4	0.7	0.3	.....	.....	.....	.....	.....	.....
24	0.8	0.3	0.2	0.5	1.0	0.2	.....	.....	.....	.....	.....	.....
25	0.9	0.2	0.3	0.5	1.5	0.2	.....	.....	.....	.....	.....	.....
26	0.9	0.2	0.4	0.4	1.0	0.2	.....	.....	.....	.....	.....	.....
27	0.8	0.2	0.4	0.4	0.8	0.2	.....	.....	.....	.....	.....	.....
28	0.8	0.2	0.4	0.3	0.7	0.1	.....	.....	.....	.....	.....	.....
29	0.7	.....	0.5	0.3	0.6	0.1	.....	.....	.....	.....	.....	.....
30	0.7	.....	2.0	0.2	0.5	0.1	.....	.....	.....	.....	.....	.....
31	0.6	.....	2.1	.....	0.4	.....	.....	.....	.....	.....	.....	.....

1899.

1	1.4	0.8	1.9	2.4	1.4	1.1	0.7	0.4	0.8	-0.2	0.4	-0.3
2	1.3	0.7	1.4	2.0	1.3	1.0	0.4	0.4	0.7	-0.3	1.0	0.2
3	1.0	1.0	1.2	2.0	1.2	0.9	0.4	0.3	1.6	-0.3	1.0	0.2
4	1.0	2.0	4.6	2.0	1.0	0.8	0.3	0.0	1.6	-0.4	0.5	0.1
5	1.5	3.6	9.0	2.0	1.0	0.7	0.3	-0.2	1.0	-0.4	0.3	-0.1
6	2.0	5.7	5.6	2.0	1.0	0.7	0.2	0.0	0.7	-0.4	0.2	-0.2
7	5.1	5.0	4.0	1.8	1.1	0.6	-0.2	0.0	0.1	-0.4	0.0	-0.3
8	3.2	4.6	2.2	4.0	1.2	0.4	-0.1	-0.2	0.0	-0.5	-0.2	-0.4
9	1.1	4.0	2.0	3.8	1.5	0.4	-0.2	0.0	-0.3	-0.2	-0.3	-0.4
10	1.1	3.0	1.6	3.7	2.0	0.4	-0.1	-0.1	-0.5	0.0	-0.3	-0.4
11	1.0	2.6	1.0	2.2	1.9	0.3	-0.2	-0.1	-0.5	0.0	-0.3	-0.4
12	1.2	2.4	0.8	1.8	2.0	0.9	-0.2	0.0	-0.3	0.0	-0.3	-0.2
13	1.2	2.0	0.5	1.8	1.9	3.9	-0.3	0.0	-0.3	-0.1	-0.4	4.5
14	2.0	1.7	1.0	1.7	1.8	1.8	-0.3	0.3	-0.4	-0.1	-0.4	2.0
15	1.5	1.4	2.2	1.7	1.7	1.6	-0.3	0.4	-0.4	-0.1	-0.4	0.5
16	1.6	1.2	4.4	1.6	1.7	1.6	-0.2	0.4	-0.4	-0.2	-0.4	0.3
17	1.5	2.0	3.7	1.5	1.6	1.0	0.2	0.3	-0.3	-0.3	-0.4	0.2
18	1.7	3.0	2.6	1.5	1.1	0.9	0.2	0.3	-0.3	-0.3	-0.4	0.2
19	1.2	3.8	15.0	1.4	1.0	0.7	0.3	0.2	-0.3	-0.3	-0.4	-0.1
20	1.2	4.0	8.5	1.4	0.9	0.7	0.4	0.2	1.5	-0.4	-0.5	-0.1
21	0.9	4.0	4.3	1.3	0.8	0.6	0.5	0.2	1.1	-0.4	-0.5	-0.2
22	0.8	2.9	3.0	1.3	0.8	0.6	0.5	0.2	0.7	-0.3	-0.4	-0.3
23	0.8	2.5	2.8	1.2	1.1	0.6	0.5	0.1	0.3	-0.2	-0.4	-0.4
24	0.2	2.0	2.3	1.2	1.5	0.5	0.6	0.1	0.0	-0.2	-0.4	-0.4
25	0.9	1.2	2.0	1.5	1.0	0.5	0.4	0.0	0.0	-0.2	-0.2	-0.3
26	1.0	1.0	2.0	2.0	0.9	0.5	0.2	0.0	0.2	-0.1	-0.2	-0.3
27	1.0	4.6	2.0	2.5	0.8	1.2	1.1	0.0	1.5	-0.1	-0.2	-0.3
28	0.9	3.0	3.0	2.0	0.8	1.0	1.1	0.3	0.7	-0.2	0.0	-0.2
29	0.9	.....	3.0	1.7	0.7	0.8	1.1	1.0	0.0	-0.2	-0.2	-0.2
30	1.0	.....	2.9	1.4	1.0	0.7	0.7	1.0	0.0	-0.1	-0.2	-0.2
31	0.9	.....	2.2	.....	0.8	.....	0.4	0.7	.....	0.0	.....	-0.2

¹ 10.3 at 6 p. m.

DAILY RIVER STAGES.

329

Ohio River system—New River, Hinton, W. Va.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.3	2.0	2.1	9.8	2.4	1.5	2.3	3.0	1.2	7.0	1.2	6.3
2	2.6	2.0	2.3	11.5	3.4	1.5	2.0	2.9	1.2	4.2	1.2	5.0
3	2.3	2.6	2.3	8.0	3.0	1.4	1.8	3.0	1.2	3.0	1.2	3.9
4	1.7	5.6	2.1	5.9	3.1	1.4	1.6	2.8	1.1	2.4	1.3	3.3
5	1.5	5.1	2.0	4.8	3.9	1.8	1.5	2.4	1.1	2.1	3.3	2.9
6	1.1	4.2	1.9	4.1	3.3	2.2	2.0	2.0	1.3	1.9	8.5	2.8
7	1.5	4.6	1.9	3.7	2.9	1.9	2.1	1.9	1.4	1.7	5.2	2.6
8	1.4	5.0	2.0	3.4	2.5	1.8	2.6	1.8	1.8	1.6	3.8	2.5
9	1.4	4.2	2.1	3.1	2.3	2.1	7.3	1.8	1.7	1.5	3.1	2.4
10	1.7	4.1	2.2	3.1	2.2	2.2	10.0	1.8	1.6	1.4	2.7	2.6
11	1.7	3.9	2.1	3.1	2.0	2.3	6.0	1.7	1.3	1.4	2.4	2.7
12	1.7	3.4	2.4	3.0	1.9	2.1	4.6	1.6	1.4	1.4	2.2	2.6
13	1.5	3.0	2.7	3.0	1.8	2.0	3.9	1.6	1.3	1.5	2.4	2.4
14	1.3	3.0	2.6	2.8	1.8	1.8	3.5	1.8	1.3	1.8	2.4	2.3
15	1.2	4.7	2.5	2.7	1.9	1.6	3.0	1.6	1.3	1.9	2.2	2.5
16	1.1	4.0	3.9	2.6	2.2	1.5	2.8	1.7	1.3	1.8	2.0	3.7
17	1.3	3.6	6.4	2.5	1.9	1.6	2.5	1.6	1.4	1.7	1.9	4.4
18	1.3	3.0	5.5	2.4	1.7	1.5	2.5	1.6	1.3	1.6	1.8	3.6
19	1.4	2.6	4.5	2.3	1.6	1.6	2.4	1.5	1.2	1.5	1.8	3.0
20	1.5	2.2	4.7	2.2	1.6	1.9	2.2	1.4	1.2	1.4	1.7	2.8
21	1.6	1.7	5.1	2.2	1.9	1.7	2.1	1.3	1.2	1.3	1.7	2.6
22	1.6	1.2	4.0	2.1	1.8	1.9	2.2	1.3	1.2	1.3	1.7	2.4
23	1.5	1.5	3.7	2.1	2.0	1.8	2.1	1.3	1.2	1.3	1.7	2.3
24	1.7	2.1	3.4	2.1	2.6	1.7	2.2	1.4	1.3	1.3	1.7	2.2
25	4.5	2.5	3.6	2.7	2.1	2.1	2.3	1.7	1.3	1.3	1.6	2.0
26	4.6	2.4	3.3	2.7	2.1	3.3	2.3	1.9	1.3	1.3	1.6	1.6
27	3.6	2.3	3.2	2.6	2.1	3.1	3.0	2.0	1.2	1.3	1.6	1.3
28	2.9	2.1	3.0	2.5	2.0	3.0	2.4	1.7	1.1	1.3	1.6	1.3
29	2.5	2.0	2.9	2.3	1.9	2.8	2.1	1.5	1.1	1.3	2.1	1.3
30	2.3	-----	7.8	2.2	1.8	2.6	2.0	1.4	2.2	1.3	4.8	1.6
31	2.1	-----	11.0	-----	1.6	-----	2.5	1.3	-----	1.2	-----	1.8

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.9	1.1	3.8	2.8	2.1	2.1	1.6	1.7	1.1	0.9	1.0	1.3
2	1.9	1.7	3.6	2.8	2.5	2.2	1.6	1.7	1.1	0.9	1.0	1.4
3	1.9	1.8	3.4	2.7	4.4	2.1	3.0	1.6	1.1	0.9	1.1	1.3
4	1.8	1.9	3.3	2.6	4.3	2.0	2.0	1.6	1.2	0.9	1.5	1.3
5	1.8	2.4	3.2	2.9	3.9	2.2	2.0	1.8	1.1	0.9	1.5	1.4
6	1.9	2.6	3.3	4.0	3.5	2.7	2.3	1.7	1.1	0.9	1.4	1.9
7	2.4	10.0	3.6	4.5	3.2	2.6	2.3	1.8	1.0	0.8	1.3	2.4
8	2.0	7.7	4.2	3.8	3.0	2.3	2.3	1.7	1.0	0.8	1.2	2.0
9	1.8	5.8	4.1	3.6	2.8	2.9	2.1	2.4	1.0	0.8	1.1	1.8
10	1.8	5.0	5.5	4.1	2.7	3.1	2.0	2.0	1.0	0.8	1.1	1.6
11	1.9	4.4	7.2	4.4	2.6	2.9	2.0	1.8	0.9	0.8	1.1	1.4
12	1.8	4.4	6.7	3.9	2.7	2.5	2.1	1.8	0.9	0.8	1.0	1.3
13	1.7	6.5	6.8	3.5	3.7	2.2	1.9	1.6	0.9	2.0	1.0	1.3
14	1.6	6.3	7.0	3.2	9.6	2.1	1.9	1.5	0.9	2.3	1.0	1.2
15	1.6	5.4	7.5	3.1	6.1	2.0	1.8	1.4	0.9	1.7	1.0	1.3
16	1.7	5.1	6.5	3.0	4.7	2.3	1.7	1.4	0.9	1.4	1.0	1.4
17	1.9	5.0	5.3	3.1	3.9	2.0	1.6	1.3	0.9	1.2	1.0	2.2
18	2.0	4.6	4.8	3.0	3.4	1.9	1.5	1.3	0.9	1.1	1.0	2.0
19	2.1	4.2	5.3	2.9	3.1	1.8	1.6	1.3	0.9	1.0	1.0	1.8
20	2.2	4.3	6.0	2.7	2.9	2.2	1.6	1.5	0.8	1.0	1.0	1.7
21	2.2	8.5	5.9	2.6	2.7	2.7	1.7	1.4	0.8	1.1	1.0	1.7
22	2.3	12.8	5.0	2.5	2.6	2.4	2.4	1.3	0.8	2.1	1.0	2.6
23	2.6	12.5	4.4	2.4	2.4	2.2	3.5	1.3	0.8	1.8	1.0	3.0
24	2.6	12.9	4.0	2.3	2.3	2.1	4.0	1.5	0.8	1.5	1.0	2.8
25	2.3	7.5	3.8	2.3	2.2	2.0	3.9	1.5	1.0	1.4	1.0	2.2
26	1.8	5.9	3.5	2.3	2.2	1.9	3.1	1.5	1.3	1.2	1.0	1.8
27	1.5	5.0	3.3	2.2	2.1	1.8	3.3	1.5	1.2	1.2	1.0	1.6
28	1.3	4.2	3.1	2.2	2.0	1.8	3.2	1.5	1.1	1.1	1.0	1.5
29	1.2	-----	3.0	2.2	2.0	1.7	2.6	1.4	1.1	1.1	1.0	1.5
30	1.1	-----	2.9	2.1	1.9	1.6	2.2	1.3	1.0	1.1	1.3	1.8
31	1.1	-----	2.8	-----	1.9	-----	2.0	1.2	-----	1.1	-----	1.8

DAILY RIVER STAGES.

Ohio River system—New River, Hinton, W. Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	2.4	1.8	6.0	2.2	2.1	1.3	2.1	1.8	1.6	2.7	2.5
2	1.6	2.0	1.8	5.0	2.0	2.0	1.2	2.0	1.6	1.6	2.6	2.4
3	1.1	1.6	1.8	4.0	1.9	1.8	1.2	2.0	1.5	1.6	2.5	2.3
4	1.1	1.3	1.8	3.6	1.8	1.7	1.1	1.8	1.4	1.6	2.4	2.3
5	1.3	1.3	1.7	3.3	1.8	1.6	1.7	4.5	1.5	1.7	2.3	2.8
6	1.4	1.6	1.7	3.3	1.9	1.5	1.4	6.0	3.8	4.5	2.2	4.6
7	1.6	1.6	1.7	3.3	7.0	1.4	1.3	4.2	2.8	3.9	2.2	3.8
8	1.6	1.6	1.7	3.1	6.2	1.4	1.4	3.4	2.3	3.1	2.2	3.2
9	1.7	1.7	1.7	2.9	4.6	1.3	1.3	2.9	2.1	2.7	2.2	2.9
10	1.9	1.9	1.7	2.8	3.6	1.3	1.4	3.4	1.9	2.4	2.2	2.6
11	4.8	2.2	1.7	2.9	3.1	1.3	1.3	9.0	1.7	2.2	2.2	2.4
12	3.6	2.3	1.7	5.0	2.8	1.3	1.2	6.3	1.6	2.1	2.7	2.2
13	3.1	2.5	1.7	4.2	2.6	1.3	1.1	4.5	1.5	2.0	2.8	2.2
14	3.0	2.5	1.8	3.8	2.4	1.3	1.0	3.9	1.4	1.9	2.5	2.2
15	2.9	2.3	1.9	4.2	2.3	1.6	1.2	3.4	1.4	1.9	2.4	1.7
16	5.0	2.1	1.9	4.5	2.2	1.7	1.3	2.9	1.3	1.8	2.3	1.5
17	4.2	1.9	1.9	4.2	2.2	1.6	1.8	2.7	1.3	1.7	2.3	1.8
18	3.3	1.8	2.0	3.7	2.4	2.1	1.8	2.3	1.3	1.8	2.4	2.2
19	2.7	1.8	3.5	3.2	2.3	3.4	1.8	2.3	1.3	2.5	3.7	2.4
20	2.4	2.2	3.7	2.9	2.2	3.4	1.7	2.2	1.2	5.3	4.5	2.7
21	2.4	2.7	3.0	2.7	2.1	3.0	1.8	2.0	1.2	3.8	4.6	2.8
22	3.1	3.2	2.6	2.5	2.0	2.5	1.4	2.0	1.2	7.8	3.8	2.9
23	3.2	2.9	2.3	2.3	5.4	2.1	1.6	1.9	1.4	8.3	3.4	3.5
24	3.0	2.5	2.2	2.2	5.3	1.8	1.6	1.7	6.5	5.6	3.2	5.1
25	3.4	2.2	3.6	2.4	5.0	1.6	2.9	1.6	4.1	4.3	3.2	4.2
26	3.7	2.1	4.6	2.8	4.1	1.5	2.4	1.7	2.9	3.7	2.9	3.6
27	4.4	2.0	3.7	2.7	3.3	1.4	2.0	1.7	2.4	3.3	2.7	3.2
28	3.9	1.9	3.0	2.6	2.8	1.4	2.3	1.9	2.1	3.1	2.5	2.9
29	3.3	-----	3.3	2.4	2.5	1.3	3.1	2.2	1.9	2.9	2.3	2.7
30	2.7	-----	6.7	2.3	2.3	1.3	2.7	2.2	1.7	2.7	2.3	2.5
31	2.6	-----	7.6	-----	2.2	-----	2.4	1.9	-----	2.6	-----	2.4

1899.

1	2.6	2.4	6.3	4.8	3.2	2.6	2.0	1.7	1.4	1.3	1.2	1.3
2	2.6	2.2	5.3	4.3	3.1	2.9	1.9	1.8	1.4	1.2	1.4	1.3
3	2.7	2.1	4.9	4.0	3.1	2.9	1.8	1.7	1.1	1.1	1.7	1.3
4	2.5	3.6	8.0	3.7	3.0	2.6	1.7	1.5	1.9	1.1	1.5	1.3
5	3.2	6.8	13.8	3.6	2.9	2.4	1.6	1.4	1.7	1.1	1.4	1.2
6	4.1	9.0	12.6	3.5	2.8	2.2	1.6	1.4	1.6	1.1	1.4	1.1
7	6.6	9.0	7.9	3.5	3.1	2.1	1.7	1.4	1.5	1.1	1.4	1.1
8	6.5	7.7	6.0	3.9	4.0	2.0	1.7	1.3	1.3	1.1	1.3	1.0
9	5.0	6.0	5.0	5.9	6.2	1.9	1.6	1.4	1.3	1.2	1.2	1.0
10	4.2	4.6	4.8	5.0	6.0	1.9	1.7	1.4	1.3	1.4	1.2	1.0
11	3.7	3.6	4.5	4.5	4.8	1.9	1.6	1.4	1.4	1.4	1.1	1.1
12	3.4	2.8	4.3	4.0	4.5	2.2	1.5	1.3	1.3	1.5	1.1	1.2
13	3.2	2.6	4.0	3.8	5.0	4.2	1.5	1.4	1.3	1.3	1.1	1.7
14	3.2	2.2	3.9	3.6	5.4	5.0	1.4	1.5	1.4	1.2	1.1	4.3
15	3.7	2.0	3.9	3.5	4.8	4.4	1.4	1.7	1.3	1.1	1.1	3.1
16	4.3	2.2	6.1	3.4	4.0	3.7	1.4	1.7	1.2	1.1	1.1	2.4
17	4.1	2.3	6.2	3.3	3.7	3.2	1.3	1.7	1.2	1.1	1.1	2.0
18	3.8	5.5	5.2	3.1	3.3	2.9	1.4	1.5	1.1	1.1	1.1	1.7
19	3.6	4.2	6.0	3.0	3.0	2.5	1.5	1.4	1.1	1.1	1.1	1.6
20	3.3	4.5	10.5	2.9	2.8	2.3	1.6	1.3	1.3	1.1	1.1	1.6
21	3.1	5.7	7.4	2.8	2.6	2.1	1.5	1.2	2.2	1.1	1.1	1.6
22	3.0	7.0	5.7	2.7	2.6	2.0	1.4	1.1	2.2	1.1	1.1	1.5
23	2.8	6.7	5.0	2.6	2.6	2.0	1.4	1.1	1.7	1.0	1.1	1.4
24	2.7	5.8	4.6	2.6	2.7	1.9	1.4	1.1	1.5	1.0	1.1	1.5
25	2.7	4.7	4.3	2.6	2.6	1.9	1.4	1.0	1.3	1.0	1.1	1.5
26	2.9	4.1	4.0	3.3	2.4	1.9	1.4	1.0	1.3	1.0	1.1	1.4
27	2.9	5.3	4.0	4.3	2.3	2.1	1.5	1.0	1.3	1.0	1.1	1.4
28	2.8	8.0	3.9	4.2	2.2	2.5	1.9	1.0	1.4	1.0	1.1	1.1
29	2.6	-----	6.4	3.6	2.1	2.3	2.1	1.0	1.4	1.0	1.2	1.1
30	2.6	-----	6.7	3.3	2.3	2.2	1.8	1.5	1.3	1.1	1.2	1.1
31	2.5	-----	5.5	-----	2.4	-----	1.8	1.7	-----	1.1	-----	1.1

1 7.7 at 6 p.m.

DAILY RIVER STAGES.

331

Ohio River system—Big Sandy River, Louisa, Ky.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.8	4.8	4.8	36.0	4.8	3.0	8.3	7.8	5.1	5.3	3.7	16.4
2	6.0	5.0	4.7	33.0	4.9	2.9	7.4	7.9	4.7	6.0	3.7	15.3
3	6.8	8.1	4.7	26.3	5.0	2.9	6.8	10.7	4.6	6.8	3.4	11.2
4	6.3	11.8	4.6	20.5	5.0	3.5	5.9	12.4	4.6	4.6	3.4	10.0
5	5.9	13.6	4.4	18.0	4.9	3.8	5.5	9.8	4.8	4.1	3.5	7.9
6	5.8	11.8	4.4	12.1	4.8	3.7	5.1	7.2	4.7	4.1	4.0	6.9
7	5.8	16.0	4.3	11.3	4.6	3.6	5.4	6.8	4.6	4.6	4.3	6.5
8	5.3	15.1	4.5	9.1	4.4	3.4	7.3	7.2	4.5	4.4	5.3	6.4
9	5.4	13.0	5.3	8.3	3.9	3.3	10.6	13.3	4.3	4.1	5.4	7.7
10	5.3	11.2	7.7	7.8	3.7	3.7	19.8	12.8	4.0	3.9	5.3	9.4
11	5.0	9.7	7.0	7.7	3.5	4.9	13.4	10.6	3.9	3.8	5.5	9.0
12	4.7	8.6	6.9	7.5	3.4	5.1	10.6	8.7	3.8	3.9	5.4	9.0
13	4.3	8.2	7.3	7.0	3.4	4.9	8.4	7.6	3.7	3.9	5.7	8.6
14	4.0	9.1	7.5	6.6	3.3	4.5	7.6	6.8	3.6	4.0	6.3	7.1
15	3.7	13.0	7.2	6.0	3.3	4.1	7.0	6.0	3.6	6.9	7.7	7.0
16	3.4	12.1	11.2	5.7	3.2	3.9	7.5	5.8	3.6	6.8	6.9	7.2
17	3.4	10.0	27.5	5.5	3.1	3.7	7.8	5.1	3.5	6.2	6.4	5.9
18	3.4	8.3	24.2	5.6	3.0	3.5	8.3	4.5	3.4	5.9	6.2	8.2
19	3.3	7.5	18.0	5.4	2.9	3.4	8.0	4.2	3.4	4.6	5.9	8.6
20	3.3	6.8	19.6	5.1	3.0	3.3	7.9	4.0	3.2	4.1	5.6	7.8
21	3.2	6.5	18.8	4.8	3.1	3.1	6.9	3.9	3.4	3.9	5.3	7.3
22	3.7	7.9	15.4	4.7	3.5	2.9	6.3	3.8	3.3	4.2	5.1	6.3
23	3.5	8.4	13.0	4.7	3.8	2.9	6.5	3.9	3.5	4.0	5.1	5.8
24	4.4	5.5	12.4	4.6	4.1	3.0	6.1	11.5	4.3	4.9	5.1	5.4
25	4.0	5.2	10.5	4.7	3.7	4.6	11.5	17.2	4.2	4.7	5.3	5.1
26	4.8	5.4	9.9	4.6	3.5	13.4	10.7	13.4	4.1	4.4	5.0	4.8
27	5.0	5.0	9.1	4.3	3.3	12.8	11.2	10.2	3.9	4.2	5.0	4.6
28	5.2	4.9	8.7	4.6	3.2	11.6	10.6	7.5	3.8	4.0	7.0	4.3
29	5.4	4.8	9.4	4.9	3.1	18.0	8.8	6.8	3.8	3.9	18.5	4.1
30	5.2		18.0	5.0	3.0	13.1	7.5	5.9	5.0	3.9	17.4	4.0
31	5.0		33.4		3.0		7.3	5.5		3.8		4.2

1897.

1	4.2	5.3	14.3	6.3	4.9	3.9						
2	4.1	5.9	9.6	6.5	5.1	3.7						
3	4.9	8.8	7.8	6.6	9.6	3.7						
4	4.8	10.3	7.2	6.3	13.4	3.5						
5	4.6	11.4	7.1	4.2	13.2	3.5						
6	4.3	11.8	7.6	25.5	11.5	3.4						
7	4.1	18.6	7.4	15.8	9.3	3.4						
8	3.9	21.2	11.3	13.5	8.9	4.0						
9	3.7	19.5	18.2	13.8	7.5	4.5						
10	3.6	17.3	26.3	16.3	7.4	5.8						
11	3.6	16.2	32.2	14.9	9.2	6.0						
12	3.5	14.1	25.6	12.3	6.9	6.4						
13	3.3	16.3	20.2	11.4	7.9	6.5						
14	3.3	11.5	20.1	10.1	14.7	6.2						
15	3.6	13.0	22.6	10.3	20.1	5.8						
16	3.8	10.4	19.3	11.6	14.5	5.6						
17	5.6	8.2	14.5	13.8	10.3	6.4						
18	6.4	7.8	12.3	12.7	8.9	7.3						
19	6.6	7.5	13.6	10.8	8.1	8.7						
20	6.5	6.4	14.5	9.6	7.3	12.0						
21	6.5	12.3	16.1	8.5	6.9	10.9						
22	6.5	40.2	25.4	7.9	6.3	9.0						
23	6.1	46.6	13.0	6.4	6.1	8.6						
24	6.9	42.3	13.9	5.8	5.3	8.3						
25	6.1	36.1	14.1	5.4	5.0	8.1						
26	5.9	32.5	13.3	5.1	4.8	7.6						
27	5.4	24.8	10.6	5.4	4.7	7.5						
28	5.3	19.6	9.1	5.3	4.7	7.3						
29	6.3		7.8	5.0	4.6	7.1						
30	5.2		7.1	4.8	4.6	6.8						
31	5.2		6.2		4.4							

Ohio River system—Licking River, Falmouth, Ky.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.6	2.5	2.0	10.0	3.0	1.6	4.0	3.0	1.8	1.0	1.0	8.0
2	3.4	3.2	2.0	10.5	2.4	1.5	3.5	8.5	1.7	1.0	1.0	6.0
3	3.4	5.7	2.0	8.4	2.0	1.4	3.0	11.0	1.7	0.9	1.0	4.5
4	3.4	7.4	2.0	7.8	1.8	7.0	2.4	8.5	1.6	0.9	1.5	4.0
5	3.4	7.2	2.0	4.9	1.6	4.3	2.2	7.5	1.6	0.8	2.0	3.0
6	3.3	5.8	1.8	4.0	1.4	3.2	2.0	4.5	1.6	0.8	3.5	2.8
7	3.0	5.8	1.8	3.7	1.3	3.6	1.8	4.3	1.6	0.8	3.0	2.8
8	2.6	7.5	2.5	3.5	1.3	2.6	1.7	4.0	1.5	0.8	2.5	2.8
9	2.5	6.4	3.6	3.4	1.3	3.0	2.0	4.0	1.5	0.7	2.0	3.0
10	2.5	5.0	3.2	3.2	1.3	3.8	4.0	3.8	1.4	0.7	1.8	4.0
11	2.5	5.4	3.0	3.0	1.2	2.8	3.0	4.5	1.3	0.6	1.9	5.0
12	2.3	5.3	2.8	2.7	1.2	2.4	3.8	4.0	1.2	0.6	2.0	4.5
13	2.3	5.8	2.7	2.6	1.2	2.2	3.4	3.5	1.2	0.6	2.4	3.5
14	2.3	8.8	2.7	2.5	1.2	2.2	3.0	3.3	1.1	0.6	2.2	3.5
15	Frozen.	9.0	2.7	2.4	1.1	2.0	2.8	3.0	1.0	1.7	2.0	4.0
16	-----	7.5	2.7	2.3	1.0	1.8	2.6	2.8	1.0	1.7	1.8	4.3
17	2.6	5.3	3.3	2.2	0.9	1.5	2.5	2.6	0.9	1.7	1.6	4.0
18	2.5	4.5	6.8	2.0	0.8	1.3	4.0	2.3	0.8	1.7	1.5	3.6
19	2.4	3.8	13.6	1.9	0.7	1.3	4.0	2.1	0.7	1.7	1.5	3.3
20	2.4	3.2	16.2	1.8	0.6	1.3	3.0	2.0	0.6	1.6	1.5	3.0
21	2.4	Frozen.	13.0	1.7	0.6	1.2	12.0	1.8	0.5	1.7	1.5	2.4
22	2.4	-----	10.9	1.6	0.6	1.2	10.0	1.5	0.5	1.7	1.8	2.4
23	2.4	-----	8.0	1.6	1.0	1.6	9.0	1.8	0.4	1.6	1.8	2.4
24	3.0	2.6	6.3	1.5	1.2	2.0	14.4	2.0	0.4	1.5	1.8	2.4
25	5.0	2.3	5.6	1.5	1.3	2.8	11.5	2.0	0.4	1.4	1.6	2.4
26	4.0	2.1	7.4	1.5	1.3	2.5	10.0	1.8	0.4	1.3	1.5	2.5
27	3.7	2.0	6.5	1.4	2.8	2.5	8.0	1.8	0.4	1.2	3.0	2.6
28	3.3	2.0	5.3	1.4	3.0	5.0	7.0	3.6	0.5	1.1	6.8	2.5
29	3.0	2.0	4.8	1.4	2.6	4.5	5.0	3.0	0.5	1.0	8.0	2.4
30	2.8	-----	8.8	4.5	2.0	4.5	4.0	2.0	1.0	1.0	6.0	2.4
31	2.6	-----	9.9	-----	1.7	-----	3.5	1.9	-----	1.0	-----	2.4

1897.

1	2.2	Frozen.	4.0	2.9	6.0	1.6	2.4	1.8	1.0	0.4	0.2	2.0
2	2.0	-----	3.8	2.8	9.8	1.6	3.0	1.6	1.0	0.4	0.3	1.9
3	1.8	7.0	8.5	2.7	10.8	1.5	3.2	1.5	1.0	0.3	0.3	1.9
4	1.8	7.0	10.0	2.7	10.0	1.4	2.3	1.4	1.0	0.3	0.4	3.0
5	2.6	7.5	9.4	3.0	8.4	1.3	2.2	1.4	0.9	0.3	0.4	6.0
6	2.0	10.7	8.0	4.0	7.0	1.2	2.6	1.8	0.9	0.3	0.4	4.0
7	2.0	14.4	5.9	8.4	6.0	1.1	3.8	2.0	0.9	0.3	0.6	3.0
8	1.9	13.0	5.0	7.4	4.5	1.1	3.0	1.8	0.9	0.2	4.0	2.5
9	1.8	12.5	14.5	17.6	3.5	1.1	2.6	1.8	0.8	0.2	13.4	2.3
10	1.8	10.4	17.6	14.0	4.0	1.0	2.0	1.6	0.8	0.2	4.3	2.0
11	1.6	7.0	17.1	10.3	3.5	1.0	2.0	1.4	0.7	0.2	4.0	2.0
12	1.6	5.9	13.5	7.7	16.4	1.0	1.9	1.2	0.6	0.1	3.6	2.0
13	1.6	6.3	10.0	5.7	12.4	1.1	1.9	1.2	0.6	0.1	3.0	1.8
14	1.6	6.2	8.0	4.8	9.7	0.9	1.8	1.0	0.6	0.1	2.8	1.8
15	1.8	5.0	6.7	4.4	8.0	0.8	1.8	1.6	0.5	0.1	2.6	2.6
16	2.0	4.8	6.3	8.0	5.8	0.8	1.6	2.0	0.5	0.1	2.4	2.6
17	4.5	4.6	6.0	7.0	5.0	1.2	1.5	2.5	0.5	0.0	2.4	2.5
18	5.0	4.4	11.5	6.2	4.0	2.8	2.0	2.2	0.5	0.0	2.2	2.4
19	4.0	4.0	10.5	4.8	3.7	3.2	1.6	2.0	0.5	0.0	2.0	2.4
20	4.0	4.0	10.8	4.0	3.5	2.6	1.8	1.8	0.4	0.0	1.6	2.6
21	6.5	5.9	9.4	3.7	3.3	2.5	1.9	1.5	0.4	0.2	1.4	6.5
22	5.0	26.5	7.6	3.4	3.2	2.5	1.7	1.4	0.4	0.3	1.2	6.0
23	4.5	27.0	6.5	3.0	3.1	2.4	1.6	1.4	0.4	0.3	1.0	5.0
24	4.0	21.9	5.6	2.8	3.5	2.5	1.6	1.4	0.4	0.3	1.0	4.0
25	3.7	16.8	4.9	2.8	4.0	4.0	3.0	1.3	0.4	0.3	1.0	3.5
26	3.5	15.4	4.5	3.8	3.7	6.5	3.0	1.4	0.4	0.3	1.0	3.0
27	3.0	14.4	4.0	4.0	3.0	5.0	5.0	1.4	0.4	0.2	4.7	2.6
28	Frozen.	7.2	3.2	3.6	2.6	4.0	4.0	1.3	0.4	0.2	3.0	2.4
29	-----	-----	3.0	3.6	2.3	3.2	3.0	1.2	0.4	0.2	2.9	2.2
30	-----	-----	2.8	3.4	2.0	2.8	2.6	1.0	0.4	0.2	2.8	2.0
31	-----	-----	2.9	-----	1.7	-----	2.0	1.0	-----	0.2	-----	2.0

DAILY RIVER STAGES.

333

Ohio River system—Licking River, Falmouth, Ky.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.0	2.8	2.8	6.8	2.6	1.6	2.5	2.9	1.0	0.9	1.7	1.2
2	4.0	2.6	2.8	5.0	2.6	2.0	2.0	3.0	1.0	0.9	1.7	1.2
3	3.0	2.5	2.8	5.0	2.6	1.8	1.8	3.0	0.9	0.9	1.5	1.2
4	3.0	2.5	2.8	5.0	2.6	1.7	1.6	3.2	0.9	0.9	1.5	3.0
5	3.0	2.4	2.9	4.0	2.6	1.6	1.4	3.2	0.9	1.0	1.4	8.5
6	3.2	2.4	2.9	4.0	3.0	1.5	3.0	3.0	1.0	1.0	2.4	8.5
7	6.0	2.3	2.9	4.0	11.1	1.4	3.5	2.9	1.0	1.0	2.0	5.0
8	4.0	2.3	2.8	3.8	11.0	1.4	3.0	2.8	1.0	1.0	1.9	4.0
9	4.0	2.3	2.6	3.4	8.0	2.0	2.0	8.2	0.9	3.5	1.9	3.0
10	16.0	2.3	2.4	3.0	5.5	2.6	1.8	6.2	0.9	3.3	5.6	2.8
11	8.5	2.2	2.0	2.8	5.0	2.0	1.7	8.2	0.9	2.0	6.0	2.6
12	8.2	3.4	2.0	2.6	4.0	1.5	1.4	8.6	0.8	1.8	7.0	2.5
13	8.4	4.0	3.0	2.6	4.0	1.2	1.2	8.0	0.8	2.0	6.0	2.3
14	8.7	4.2	2.9	5.0	3.2	1.8	1.1	7.5	0.8	2.0	5.0	Frozen.
15	14.5	3.7	2.5	4.8	3.0	1.6	1.1	6.5	0.7	2.0	4.0	-----
16	19.8	4.0	6.0	4.0	2.8	1.4	1.1	5.0	0.7	1.8	3.5	-----
17	16.0	4.2	8.0	3.5	2.8	1.2	2.2	3.0	0.7	1.6	3.3	-----
18	11.0	5.0	11.8	3.0	2.8	1.0	3.0	2.5	0.6	1.8	3.0	-----
19	8.0	4.0	11.0	3.0	4.5	1.8	4.0	2.0	0.6	2.0	2.8	4.0
20	15.0	7.0	12.5	3.0	3.5	2.5	4.0	2.0	0.6	2.8	2.5	6.0
21	11.5	9.0	17.6	3.0	3.2	2.5	3.0	2.0	0.5	3.5	2.4	5.0
22	9.5	8.5	14.8	3.0	3.0	2.0	2.8	1.8	0.5	4.0	2.0	4.5
23	27.5	8.0	10.0	2.8	2.7	2.0	2.6	1.6	0.5	4.5	2.0	4.0
24	24.0	6.0	11.0	3.0	2.5	2.0	2.4	1.5	0.6	4.8	1.8	3.5
25	16.0	4.0	15.0	3.0	2.2	1.8	2.4	1.3	0.6	4.0	1.6	3.5
26	15.9	3.5	11.6	2.8	2.0	1.8	6.0	1.3	0.7	4.0	1.5	3.4
27	10.0	3.2	11.0	2.7	2.0	1.8	5.0	1.3	0.8	3.0	1.5	3.4
28	7.0	3.0	9.3	2.7	1.9	3.0	3.0	1.3	0.9	2.8	1.4	3.3
29	5.7	-----	9.8	2.7	1.8	4.5	2.6	1.2	0.9	2.6	1.3	3.2
30	4.0	-----	9.7	2.7	1.8	3.0	2.7	1.2	0.9	2.0	1.2	3.1
31	3.0	-----	8.0	-----	1.6	-----	2.8	1.0	-----	1.7	-----	3.0

1899.

1	4.0	5.0	9.5	13.3	3.3	1.4	1.7	1.2	0.4	0.5	1.6	1.2
2	4.0	4.5	8.1	10.7	3.2	1.3	1.6	1.1	0.4	0.5	1.6	1.1
3	5.0	6.0	9.0	7.0	3.2	2.0	1.5	1.0	0.4	0.5	1.6	1.1
4	5.0	9.0	10.8	4.6	3.2	2.0	1.4	0.9	0.4	0.4	1.6	1.0
5	6.0	10.0	27.2	4.3	3.4	1.5	1.3	0.8	0.4	0.4	1.4	1.2
6	8.0	11.5	24.8	4.2	3.4	1.4	1.2	1.5	0.4	0.4	1.4	1.2
7	10.0	10.6	18.0	4.2	3.6	1.3	1.0	1.4	0.4	0.4	1.4	1.2
8	11.0	10.0	14.6	6.2	3.6	1.3	1.0	1.2	0.4	0.4	1.4	1.1
9	10.0	8.0	13.6	10.7	4.0	1.8	1.0	1.0	0.5	0.4	1.3	1.1
10	9.0	6.5	11.8	10.6	4.0	1.8	1.0	0.8	0.5	0.4	1.3	1.0
11	7.2	6.0	8.0	10.0	3.8	1.8	0.9	1.2	0.5	0.3	1.2	1.0
12	7.2	Frozen.	4.8	9.0	3.8	1.8	0.9	4.0	0.5	0.3	1.2	2.0
13	11.4	-----	4.5	8.8	4.5	1.8	0.9	2.0	0.5	0.3	1.2	2.2
14	21.8	-----	4.0	8.0	6.4	1.8	0.8	1.8	0.5	0.3	1.2	2.2
15	21.2	-----	4.0	7.0	5.2	2.5	0.8	1.6	0.5	0.3	1.2	2.2
16	16.5	-----	3.7	5.8	4.8	3.5	0.8	1.5	0.5	0.3	1.1	2.0
17	13.0	-----	3.6	5.2	4.0	3.0	0.9	1.4	0.5	0.3	1.0	1.8
18	8.0	-----	3.6	4.0	4.0	2.8	1.0	1.3	0.5	0.3	1.0	1.8
19	5.5	7.0	9.2	4.0	3.5	2.6	1.2	1.2	0.5	0.3	1.0	1.8
20	5.0	10.5	13.5	4.0	3.0	2.0	1.3	1.1	0.4	0.4	1.0	1.8
21	4.5	11.0	11.0	3.8	3.0	1.9	1.3	1.0	0.4	0.4	1.0	1.7
22	4.2	10.2	10.8	3.8	3.0	1.9	1.3	1.0	0.4	0.4	1.0	1.7
23	4.0	8.8	11.5	3.7	2.8	1.8	1.3	0.9	0.3	0.4	1.2	3.0
24	9.5	8.0	11.0	3.7	2.6	1.7	1.3	0.9	0.3	0.4	1.8	5.0
25	12.5	6.0	10.0	3.7	2.4	2.5	1.3	0.8	0.3	0.4	1.8	5.0
26	12.6	9.4	8.0	3.8	2.2	2.2	1.2	0.8	0.3	0.4	1.6	4.0
27	10.6	9.4	6.0	3.8	1.9	2.0	1.4	0.8	0.3	¹ 0.7	1.4	3.5
28	9.0	11.0	10.5	4.2	1.5	1.9	1.5	0.8	0.3	¹ 1.0	1.2	Frozen.
29	7.0	-----	20.3	3.8	1.4	1.8	1.4	0.6	0.4	¹ 1.6	1.2	-----
30	6.0	-----	16.0	3.4	1.4	1.7	1.4	0.5	0.5	¹ 1.6	1.2	-----
31	5.5	-----	14.8	-----	1.4	-----	1.4	0.4	-----	¹ 1.6	-----	-----

This rise due to dam built below gage.

DAILY RIVER STAGES.

Ohio River system—Scioto River, Columbus, Ohio.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1								2.2	2.5	1.8	2.2	2.2
2								2.2	2.3	2.1	2.2	2.2
3								2.2	2.2	2.1	2.2	2.2
4								2.4	2.1	2.1	2.2	2.2
5								2.1	2.1	2.1	2.2	2.4
6								2.1	2.0	2.1	2.4	3.0
7								2.1	2.1	2.1	2.4	2.7
8								2.0	2.0	2.1	2.3	2.7
9								2.1	2.0	2.0	2.4	Frozen.
10								2.2	1.9	2.0	2.5	
11								2.6	1.9	2.1	3.3	
12								2.7	1.9	2.2	3.6	
13								2.6	1.9	2.2	3.4	
14								2.6	1.9	2.2	3.3	
15								2.5	1.9	2.2	3.1	
16								2.4	1.9	2.2	3.0	
17								2.4	1.9	2.2	3.0	
18								2.4	1.9	2.4	2.7	
19								2.4	1.8	2.3	2.6	
20								2.2	1.8	2.2	2.6	3.7
21								2.2	1.8	2.3	2.4	8.9
22								2.1	1.8	2.3	2.3	10.4
23								2.1	1.9	2.4	2.2	8.9
24								2.0	1.8	2.2	2.3	6.8
25								2.1	1.9	2.3	2.3	6.7
26								1.9	1.9	2.3	2.2	5.0
27								2.0	1.9	2.2	2.3	4.5
28								2.0	1.8	2.2	2.2	4.9
29								2.4	1.8	2.2	2.2	3.0
30								2.9	1.8	2.2	2.2	3.0
31								2.6		2.2		4.7

1899.

1	3.1	Frozen.	5.7	5.7	2.5	3.4	2.1	2.4	1.8	1.8	1.9	1.9
2	3.1		5.4	5.5	2.4	3.2	2.0	2.4	1.9	1.8	1.9	1.9
3	3.1		5.5	5.0	2.4	3.1	2.0	2.3	2.1	1.8	1.9	1.9
4	3.1		5.5	4.1	2.4	3.1	2.0	2.3	1.9	1.8	1.9	1.9
5	9.1		8.1	3.9	2.5	3.5	2.0	2.5	1.9	1.8	1.9	1.9
6	9.7		8.4	3.8	2.4	3.3	1.9	4.8	1.9	1.8	1.9	1.9
7	7.3		7.8	4.3	2.4	3.1	1.9	4.7	1.8	1.8	1.9	1.9
8	6.0		5.3	4.0	2.8	2.8	1.8	3.4	1.8	1.8	1.9	1.8
9	5.0		4.9	4.5	2.7	2.7	1.8	3.2	1.8	1.8	1.9	1.8
10	4.8		4.3	4.8	2.4	2.7	1.8	2.8	1.8	1.8	1.9	1.8
11	3.5		4.1	4.0	2.6	2.7	1.8	2.6	1.8	1.7	1.9	1.9
12	3.5		5.1	3.8	2.4	2.3	1.8	2.6	1.7	1.7	1.9	2.0
13	3.7		5.1	3.6	3.2	2.2	1.8	2.4	1.7	1.7	1.9	1.9
14	13.2		6.5	3.5	3.2	2.2	1.8	2.4	1.7	1.7	1.9	2.1
15	14.5		4.0	3.4	2.2	2.3	1.7	2.3	1.7	1.7	1.9	2.2
16	11.5		3.8	3.3	2.2	2.2	1.9	2.2	1.8	1.7	2.0	2.3
17	9.8		3.5	3.0	2.2	2.2	2.0	2.2	1.8	1.7	1.9	2.3
18	7.6	3.5	3.7	3.0	2.2	2.2	1.9	2.1	1.8	1.8	1.9	2.3
19	5.3		5.0	2.8	2.2	2.2	2.1	2.1	1.8	1.8	1.9	2.6
20	4.0	3.6	6.5	2.7	2.2	2.3	2.6	2.0	1.8	1.8	1.9	5.0
21	3.1	3.8	5.8	2.6	2.1	2.1	2.7	2.0	1.8	1.8	2.0	4.2
22	3.0	4.1	5.8	2.5	2.1	2.0	2.4	1.9	1.8	1.8	2.0	4.0
23	2.9	6.9	9.8	2.5	2.1	2.1	2.2	1.9	1.8	1.8	2.1	3.8
24	2.8	5.2	8.3	2.4	2.1	2.7	2.0	1.8	1.8	1.8	2.0	4.0
25	2.8	4.7	6.8	2.4	2.1	3.0	2.0	1.9	1.8	1.8	2.0	3.6
26	2.7	3.9	7.5	2.4	2.1	2.5	3.0	2.0	1.8	1.8	2.0	3.4
27	Frozen.	7.3	6.7	2.4	2.1	2.3	2.7	1.9	1.8	1.8	1.9	Frozen.
28		6.8	6.8	2.4	2.0	2.2	2.6	2.0	1.8	1.8	1.9	
29			7.3	2.6	2.0	2.2	2.4	1.9	1.8	1.7	1.9	
30			6.6	2.5	2.2	2.2	2.5	1.8	1.8	1.9	1.9	
31			6.9		2.2		2.4	1.8		1.9		

DAILY RIVER STAGES.

335

*Ohio River system—Miami River, Dayton, Ohio.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	2.3	1.7	2.8	1.7	1.2	1.3	4.8	1.4	9.1	1.8	2.3
2	1.8	2.6	1.7	2.5	1.6	1.2	1.3	4.3	1.4	7.4	1.7	1.1
3	1.8	2.4	1.7	3.2	1.6	1.2	1.3	3.6	1.3	5.2	1.7	1.9
4	1.8	2.4	1.6	2.1	1.5	1.3	1.4	3.4	1.3	4.1	1.6	1.8
5	1.7	2.4	1.6	2.1	1.5	1.4	2.0	3.1	1.5	3.3	1.7	1.8
6	1.7	2.3	1.6	1.9	1.4	1.3	2.3	3.0	2.7	3.0	1.8	1.8
7	1.7	2.3	1.7	1.8	1.3	1.5	1.9	3.5	1.5	2.9	1.8	1.7
8	1.7	2.2	3.8	1.8	1.3	1.6	1.6	5.8	1.5	2.7	1.7	1.7
9	1.6	2.2	3.0	1.7	1.3	1.4	1.6	5.0	1.4	2.4	1.6	2.5
10	1.5	2.3	2.3	1.7	1.2	1.5	2.6	3.5	1.3	2.2	1.6	3.8
11	1.3	2.0	2.9	1.7	1.2	1.6	2.1	2.9	1.3	2.1	1.7	3.0
12	1.0	2.0	2.5	1.6	1.2	1.5	1.8	3.0	1.2	2.1	1.7	2.4
13	1.0	2.2	2.3	1.7	1.3	1.5	1.8	2.5	1.6	2.0	1.8	2.4
14	0.9	3.0	2.2	1.6	1.5	1.4	1.8	2.2	1.4	2.0	1.7	2.2
15	0.9	3.0	2.1	1.6	1.5	1.3	2.0	2.0	1.4	1.9	1.8	2.2
16	0.9	2.9	2.0	1.6	1.4	1.6	2.0	2.0	1.5	1.9	1.8	3.9
17	0.8	2.9	1.8	1.5	1.3	1.6	2.8	2.0	1.9	1.9	1.7	3.1
18	0.8	2.5	1.6	1.5	1.3	1.7	2.3	1.8	1.7	1.8	1.7	2.7
19	1.2	2.5	1.5	1.4	1.2	1.6	2.0	1.8	1.5	1.8	1.6	2.5
20	1.2	2.5	1.7	1.4	1.3	1.5	1.9	1.6	2.8	1.7	1.6	2.1
21	1.2	2.5	2.0	1.5	1.3	1.5	2.0	1.5	2.6	1.6	1.6	2.1
22	1.1	2.4	2.8	2.5	1.4	1.6	2.1	1.6	2.0	1.7	2.0	2.0
23	1.5	2.3	5.0	2.6	1.5	1.5	2.2	2.8	1.9	1.7	1.8	2.0
24	2.8	2.3	4.2	2.2	1.4	1.7	6.0	4.0	1.7	1.6	1.8	1.9
25	5.3	2.2	3.5	2.2	1.5	2.3	8.9	3.7	1.7	1.6	2.0	1.8
26	4.5	2.2	3.5	2.1	1.5	2.1	5.5	2.6	1.6	1.5	1.8	1.6
27	3.4	1.9	4.4	2.0	1.7	1.8	3.8	2.2	1.5	1.5	2.0	1.6
28	3.1	1.7	3.4	1.9	1.5	1.7	3.8	1.8	1.7	1.4	2.9	1.6
29	2.4	1.7	3.2	1.8	1.5	1.5	5.6	1.8	3.0	1.4	3.3	1.5
30	2.2	-----	3.8	1.7	1.3	1.4	6.3	1.6	7.3	1.4	2.7	1.5
31	2.2	-----	3.3	-----	1.3	-----	7.0	1.4	-----	1.8	-----	1.6

1897.

1	1.4	1.6	2.0	2.2	2.3	1.9	1.5	1.3	1.1	0.7	0.8	2.2
2	1.2	1.6	2.1	2.1	3.4	1.8	1.4	1.7	1.2	0.7	1.0	2.0
3	1.2	1.5	2.5	2.0	4.6	1.6	1.4	1.6	1.2	0.6	1.7	2.0
4	2.2	1.4	3.2	2.0	3.9	1.7	1.3	1.6	1.2	0.6	1.5	2.0
5	2.8	1.6	7.5	4.4	3.2	1.9	1.3	1.7	1.1	0.6	1.2	1.9
6	2.6	2.5	16.3	3.8	2.8	1.8	1.3	1.6	1.1	0.6	1.2	1.7
7	2.4	4.3	10.5	3.1	2.7	1.8	1.4	1.4	1.1	0.6	1.4	1.7
8	2.1	5.0	7.5	2.8	2.5	1.8	1.4	1.4	1.2	0.5	1.6	1.7
9	1.9	3.4	5.5	4.1	2.4	1.7	1.3	1.3	1.2	0.5	2.3	1.6
10	1.9	2.8	6.9	7.1	2.8	1.8	1.3	1.3	1.2	0.5	2.0	1.6
11	1.7	2.5	5.6	5.9	4.0	1.7	1.3	1.2	1.1	0.5	2.0	2.0
12	1.7	2.5	4.6	5.6	3.6	1.7	1.4	1.2	1.1	0.9	1.9	2.1
13	1.7	2.8	4.8	4.4	3.5	1.6	1.3	1.2	1.1	1.0	1.6	1.8
14	1.8	3.9	3.6	5.2	3.3	1.6	1.2	1.2	1.0	1.0	1.5	1.8
15	1.9	4.8	3.1	3.9	2.8	1.5	1.4	1.1	1.0	0.8	2.9	1.9
16	1.9	4.7	2.9	3.4	2.6	1.4	1.2	1.2	1.6	0.8	3.9	1.8
17	1.9	4.5	2.7	3.0	2.5	1.3	1.2	1.3	1.1	0.8	4.8	1.9
18	2.4	4.6	3.3	2.7	2.4	1.3	1.3	1.1	1.1	0.7	3.6	3.4
19	2.7	4.2	4.1	2.4	2.3	3.1	1.7	1.1	1.1	0.7	2.8	3.2
20	2.4	3.6	6.5	2.4	2.2	2.9	1.5	1.1	1.1	0.8	2.5	3.2
21	2.0	5.2	4.8	2.1	2.6	2.3	4.9	1.0	1.1	0.8	2.4	2.6
22	2.0	5.9	3.8	2.0	3.3	2.0	5.0	1.0	1.0	0.8	2.2	2.0
23	1.9	5.5	3.4	2.1	2.9	1.9	4.6	1.0	1.0	0.7	2.1	1.8
24	1.7	4.1	4.5	2.1	3.1	1.8	4.7	1.4	1.0	1.0	1.8	1.6
25	1.7	3.1	4.3	2.0	3.2	1.7	2.1	1.3	0.9	0.9	1.7	1.6
26	1.7	2.9	3.5	2.2	2.6	1.6	1.9	1.5	0.9	0.9	1.8	1.4
27	1.7	2.2	3.0	2.4	2.4	1.6	1.8	1.4	0.9	0.8	4.1	1.2
28	1.7	2.0	2.8	2.0	2.3	1.5	1.7	1.3	0.8	0.8	3.6	1.2
29	1.7	-----	2.7	2.0	2.1	1.4	1.7	1.2	0.8	0.8	3.0	1.1
30	1.7	-----	2.4	2.1	2.1	1.4	1.5	1.2	0.8	0.8	2.6	1.4
31	1.7	-----	2.4	-----	2.0	-----	1.3	1.1	-----	0.7	-----	1.7

Ohio River system—Miami River, Dayton, Ohio—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	2.8	2.2	4.7	2.6	1.8	1.2	1.6	0.8	1.3	1.5	1.6
2	1.8	2.6	2.2	3.8	2.5	1.7	1.1	1.6	0.8	1.1	1.4	1.4
3	1.7	2.6	2.3	3.6	2.5	1.7	1.1	1.5	0.9	1.1	1.4	1.4
4	1.6	2.4	2.1	3.2	2.2	1.7	1.8	1.9	0.9	1.2	1.3	2.0
5	1.6	2.3	1.9	3.1	2.1	1.6	1.6	1.6	1.0	1.4	1.3	1.6
6	1.4	2.1	1.9	3.0	2.3	1.6	1.5	1.5	1.4	1.4	3.3	1.5
7	1.6	2.0	1.8	2.9	2.6	1.6	1.3	1.3	1.6	1.2	3.2	1.7
8	1.8	1.9	1.7	2.8	2.8	1.7	1.8	1.3	1.0	1.5	2.7	1.7
9	2.2	2.3	1.9	2.7	2.5	1.8	1.4	2.4	1.4	1.4	2.1	1.6
10	3.7	2.4	1.9	2.8	2.2	1.9	1.3	2.6	1.4	1.2	4.2	1.6
11	3.2	2.6	1.8	2.6	2.1	1.9	1.3	2.2	1.3	1.4	4.5	1.5
12	3.5	4.3	2.2	2.4	3.2	2.1	1.2	1.9	1.2	1.5	4.3	1.5
13	6.7	3.9	5.6	2.4	3.1	2.0	1.2	1.8	1.1	1.4	3.2	1.4
14	4.7	2.3	5.9	2.5	2.6	2.4	1.1	1.5	1.2	1.5	2.9	1.4
15	3.7	2.2	4.2	3.1	2.6	2.2	1.1	1.4	1.3	1.5	2.5	1.4
16	5.2	3.2	6.6	3.2	5.2	2.0	1.4	1.4	1.5	1.4	2.3	1.3
17	4.3	2.9	3.5	3.1	4.5	1.9	1.5	1.3	1.4	1.3	2.1	1.6
18	3.4	2.8	3.1	2.6	4.2	1.7	1.5	1.2	1.1	1.5	2.0	1.8
19	2.8	3.6	2.9	2.5	3.5	1.8	1.7	1.4	1.0	1.6	2.0	1.8
20	7.2	3.5	6.9	2.6	3.2	1.7	1.5	1.3	1.0	1.8	1.8	3.4
21	9.4	4.3	8.0	2.6	3.6	1.6	1.5	1.2	1.0	2.0	1.8	7.4
22	7.3	3.4	8.2	2.4	3.6	1.6	1.3	1.2	1.1	1.8	1.7	6.8
23	9.4	3.6	18.3	2.3	3.0	1.5	1.5	1.1	1.5	1.9	1.8	5.1
24	8.8	2.9	15.7	2.5	2.8	1.4	1.6	1.3	1.3	2.0	1.7	4.0
25	6.7	2.6	10.0	2.8	2.6	1.3	1.3	1.3	1.9	1.9	1.6	3.1
26	6.9	2.4	7.2	2.9	2.4	1.8	1.6	1.2	2.0	2.0	1.4	3.0
27	4.8	2.4	6.6	2.8	2.2	1.5	1.9	1.2	1.8	1.9	1.3	2.8
28	3.8	2.3	9.1	2.7	2.2	1.3	1.9	1.1	1.6	1.9	1.3	2.6
29	3.4	-----	7.9	2.7	2.0	1.3	1.7	1.0	1.4	1.8	1.4	2.2
30	3.0	-----	5.8	2.6	1.9	1.2	1.6	1.0	1.3	2.0	1.6	2.2
31	2.9	-----	4.9	-----	1.8	-----	1.5	0.9	-----	1.8	-----	2.4

1899.

1	2.7	2.3	3.3	3.6	1.7	1.7	1.0	1.1	0.7	0.5	0.8	0.9
2	2.4	2.2	3.5	3.2	1.6	1.6	0.9	1.0	0.8	0.6	0.8	0.8
3	2.3	2.3	3.5	2.8	1.6	1.6	0.8	1.0	0.9	0.6	0.8	0.8
4	2.4	2.1	3.7	2.7	1.8	1.5	0.8	0.9	0.9	0.7	0.9	0.9
5	7.3	2.1	5.3	2.4	1.9	1.3	0.7	1.0	0.8	0.8	1.1	0.8
6	6.7	1.9	5.7	2.2	1.8	1.3	0.7	1.3	0.8	0.8	0.9	0.8
7	4.3	1.9	4.5	2.3	2.0	1.3	0.7	1.2	0.9	0.8	0.8	0.7
8	3.4	2.1	3.3	2.8	2.2	1.3	0.9	1.1	0.9	0.7	0.8	0.7
9	3.1	2.1	3.1	3.0	1.9	1.2	1.1	1.0	1.0	0.8	0.8	0.7
10	2.8	2.1	2.8	2.7	1.8	1.4	1.2	1.1	1.0	0.7	0.8	0.8
11	2.6	2.2	3.3	2.6	1.9	1.4	1.1	1.1	1.1	0.7	0.8	1.0
12	2.4	2.2	3.4	2.3	1.7	1.3	1.0	1.0	1.1	0.7	0.9	1.0
13	2.6	2.4	3.1	2.2	1.9	1.2	1.1	1.1	1.0	0.8	0.8	1.4
14	7.2	2.5	2.9	2.1	2.0	1.4	1.2	1.0	0.9	0.7	0.8	1.5
15	10.5	2.5	2.8	1.9	1.8	1.4	1.2	1.0	0.9	0.7	0.7	1.5
16	7.5	2.7	2.7	2.1	1.9	1.2	1.3	1.0	0.8	0.7	0.7	1.4
17	5.6	2.8	2.7	2.2	1.7	1.2	1.5	0.9	0.7	0.8	0.7	1.2
18	4.7	2.8	2.8	1.9	1.7	1.0	1.4	0.9	0.7	0.9	0.8	1.2
19	3.8	3.1	4.6	2.0	1.6	1.0	1.3	0.9	0.8	0.9	0.8	1.4
20	3.3	2.9	4.8	1.9	1.5	1.2	1.4	0.8	1.2	0.8	0.7	2.0
21	3.1	2.7	3.9	1.9	1.5	1.5	1.4	0.8	0.9	0.7	0.7	2.1
22	3.0	3.5	3.5	1.8	1.5	1.3	1.2	0.8	0.8	0.5	0.6	1.9
23	2.9	3.1	4.7	1.9	1.4	1.1	1.2	0.7	0.8	0.6	0.9	1.6
24	2.9	2.9	4.2	1.8	1.4	1.1	1.1	0.7	0.7	0.7	0.7	1.8
25	2.8	2.4	3.5	1.9	1.4	1.2	1.0	0.6	0.8	0.8	0.8	1.5
26	2.7	3.1	3.4	2.1	1.3	1.1	1.5	0.6	0.9	0.8	1.1	1.5
27	2.7	5.5	3.2	1.8	1.4	1.0	1.4	0.7	0.8	0.7	0.9	1.5
28	2.5	4.4	3.5	2.0	1.3	1.0	1.3	0.9	0.9	0.7	0.8	1.4
29	2.5	-----	3.9	1.8	1.3	0.9	1.5	0.8	0.7	1.1	0.8	1.4
30	2.4	-----	3.6	1.7	1.5	0.9	1.4	0.8	0.6	1.0	0.5	1.3
31	2.4	-----	3.7	-----	1.7	-----	1.3	0.7	-----	0.9	-----	1.3

DAILY RIVER STAGES.

337

Ohio River system—Cumberland River, Burnside, Ky.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.9	3.6	2.0	51.7	2.2	2.2	3.0	4.0	1.2	0.8	2.8	17.0
2	5.6	3.8	2.9	54.6	2.0	10.6	2.6	4.5	1.1	1.0	2.7	11.0
3	5.0	16.2	2.6	43.5	2.0	12.6	3.0	3.5	0.9	1.1	2.6	6.6
4	6.0	19.5	2.5	31.0	2.4	7.4	5.0	3.0	0.8	1.6	2.4	5.0
5	5.9	15.5	2.4	21.9	2.3	5.2	6.0	2.8	1.0	1.4	2.3	4.2
6	5.0	11.0	2.6	18.0	2.2	4.1	9.8	2.6	1.2	1.3	2.6	3.8
7	4.6	12.0	6.5	15.0	2.1	3.6	10.8	2.5	1.4	1.3	2.8	3.0
8	4.5	14.0	9.5	10.0	2.0	3.4	11.2	2.4	1.3	1.2	2.9	2.9
9	4.3	12.5	9.0	6.0	1.8	2.9	9.7	2.2	1.1	1.6	3.0	3.5
10	4.2	13.5	8.0	5.0	1.7	4.9	11.6	3.0	1.0	1.8	2.9	6.0
11	4.0	12.5	7.0	4.8	1.6	4.2	13.8	2.8	0.9	1.9	2.8	5.1
12	3.5	10.5	7.5	4.0	1.5	4.0	12.8	2.7	0.7	1.7	2.5	4.6
13	3.0	8.5	7.7	4.0	1.5	3.9	15.8	2.5	0.6	1.4	2.4	3.6
14	2.5	15.0	6.5	3.8	1.4	3.8	15.9	2.4	0.5	1.8	2.6	4.0
15	2.0	21.0	6.0	3.6	1.3	3.5	15.0	2.0	0.4	1.9	2.8	3.6
16	1.9	16.0	15.8	3.4	1.5	3.0	12.0	2.2	0.2	2.6	2.7	3.5
17	1.8	11.0	37.3	3.2	1.4	2.6	37.5	2.6	0.4	3.6	2.5	3.0
18	1.6	9.0	30.7	3.2	1.2	2.0	34.0	2.8	0.8	3.8	2.5	2.9
19	1.5	7.0	24.9	3.2	1.0	1.6	24.0	2.6	0.9	2.8	2.4	2.8
20	1.5	6.2	29.0	3.2	0.9	1.8	11.0	2.4	0.8	2.6	2.3	2.6
21	1.4	5.0	24.0	3.2	1.0	1.6	9.5	2.3	0.6	2.4	2.2	2.5
22	1.4	4.5	17.0	3.0	1.6	1.4	6.5	2.0	0.5	2.2	2.1	2.4
23	1.3	4.0	13.0	2.8	1.8	1.3	9.0	2.1	0.8	2.0	2.2	2.0
24	1.6	4.0	11.0	2.6	2.0	1.9	8.9	2.0	0.9	1.9	2.6	1.9
25	2.0	3.5	10.0	2.5	3.8	1.5	8.0	1.8	0.8	2.6	2.8	1.6
26	4.0	3.4	9.0	2.9	3.5	1.5	12.0	1.6	0.6	2.4	2.7	1.5
27	6.0	3.3	8.0	3.0	2.9	2.4	16.0	1.5	0.5	2.2	2.6	1.5
28	5.5	3.0	7.5	2.6	2.6	2.2	11.5	1.4	0.3	2.2	2.9	1.4
29	4.5	2.9	7.0	2.4	2.5	3.7	7.5	1.2	0.2	2.0	35.0	1.3
30	4.6		9.5	2.3	2.2	3.6	5.5	1.2	0.6	1.9	25.0	1.2
31	4.0		36.3		2.0		4.5	1.1		2.6		1.1

1897.

1	1.0	3.2	6.8	5.9	10.9	1.8	1.8	2.1	0.8	-0.7	-0.7	0.2
2	0.9	8.2	5.9	5.8	14.4	1.6	1.7	2.5	0.8	-0.8	-0.5	0.2
3	0.8	14.1	5.5	7.8	16.5	1.5	1.5	3.0	0.7	-0.8	-0.4	0.3
4	1.0	12.5	5.4	10.4	15.0	1.5	1.4	3.3	0.6	-0.8	-0.4	1.8
5	1.6	10.7	7.3	58.1	11.9	1.4	1.3	1.9	0.5	-0.8	-0.5	2.4
6	2.0	9.7	8.3	47.6	9.8	1.5	1.8	2.2	0.4	-0.8	-0.5	1.9
7	2.4	17.3	19.3	32.3	8.1	1.9	3.5	4.4	0.4	-0.9	-0.5	1.6
8	2.2	19.9	17.5	21.8	6.6	1.7	3.4	3.7	0.4	-0.9	-0.5	1.5
9	2.0	16.8	14.3	13.2	5.9	1.6	3.3	3.0	0.3	-0.9	-0.3	1.2
10	1.9	12.3	37.8	12.8	5.4	1.5	3.7	3.5	0.3	-0.9	-0.2	1.0
11	1.8	9.5	48.1	11.3	4.9	1.2	3.0	3.6	0.2	-1.0	-0.2	0.8
12	1.7	8.8	35.0	10.5	6.0	1.0	2.5	2.8	0.1	-0.8	-0.2	0.7
13	1.5	11.2	29.8	9.4	16.7	0.9	2.2	2.7	0.0	-0.7	-0.3	0.7
14	10.6	11.6	27.3	7.4	37.4	0.8	2.1	2.3	0.0	-0.7	-0.3	0.8
15	18.0	10.1	37.3	8.3	29.2	0.7	2.1	2.0	-0.1	-0.7	-0.3	1.0
16	11.5	8.7	27.5	11.0	21.4	0.7	1.9	1.5	-0.1	-0.7	-0.4	1.6
17	9.0	7.4	19.8	10.7	15.0	0.6	8.7	1.4	-0.2	-0.4	-0.1	1.7
18	10.0	6.3	13.4	9.3	8.1	0.5	7.0	1.3	-0.2	-0.4	-0.1	1.8
19	9.7	5.9	10.2	8.2	6.1	0.6	5.3	1.1	-0.3	-0.4	-0.1	1.7
20	8.3	5.8	33.8	6.9	5.2	0.8	8.2	1.0	-0.4	-0.4	-0.1	2.0
21	7.7	21.4	30.7	6.1	4.4	0.7	7.3	0.9	-0.4	-0.5	-0.2	7.5
22	7.7	51.5	23.3	5.2	4.0	0.8	7.7	0.7	-0.4	-0.5	-0.2	11.8
23	7.3	46.4	16.7	5.0	3.7	0.9	6.9	1.8	-0.5	-0.5	-0.1	9.3
24	6.3	41.8	11.6	4.8	3.3	3.3	5.6	2.7	-0.5	-0.5	-0.1	7.0
25	5.7	31.5	9.5	4.3	3.1	3.4	4.4	2.1	-0.5	-0.6	-0.1	5.3
26	5.0	23.1	8.2	4.6	2.7	3.3	4.2	1.8	-0.6	-0.6	-0.1	4.0
27	4.5	14.3	7.3	7.0	2.4	3.8	5.0	1.7	-0.6	-0.6	0.2	3.5
28	4.3	8.1	6.2	7.4	2.2	4.0	4.5	1.6	-0.7	-0.6	0.2	3.3
29	4.0		5.8	6.1	2.0	2.8	4.0	1.1	-0.7	-0.7	0.3	2.9
30	3.9		5.1	5.7	1.9	2.0	3.3	1.0	-0.7	-0.7	0.2	2.7
31	3.6		5.5		1.8		2.6	0.9		-0.7		2.5

Ohio River system—Cumberland River, Burnside, Ky.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.4	5.9	3.8	14.0	5.4	3.2	1.0	5.0	1.2	2.0	2.8	3.5
2	2.3	5.5	3.7	11.7	4.8	2.8	0.9	4.4	1.1	1.6	2.6	3.3
3	2.2	4.3	3.6	9.2	4.4	2.5	0.8	3.9	0.9	1.4	2.5	3.3
4	2.1	4.0	3.7	7.8	4.1	2.3	0.7	3.7	1.0	1.2	2.4	3.5
5	2.3	3.7	3.5	7.9	3.9	2.2	0.6	3.4	0.9	1.0	2.3	7.6
6	2.4	3.5	3.4	11.8	3.7	2.0	0.9	2.9	2.3	1.2	3.3	11.0
7	2.6	3.4	3.3	11.0	4.9	1.9	0.7	3.1	3.8	2.1	5.8	9.3
8	3.5	3.0	3.2	10.4	6.8	1.8	0.6	3.4	4.8	3.6	6.0	7.8
9	4.5	2.9	3.1	8.5	9.5	1.6	0.5	8.5	4.5	6.5	5.0	6.4
10	4.8	2.8	3.0	7.9	8.8	1.4	0.4	24.6	4.0	5.1	5.1	5.4
11	6.9	2.8	2.9	7.7	7.4	1.1	0.3	22.4	3.1	4.5	13.5	4.8
12	17.8	3.0	2.8	10.4	6.2	1.0	0.1	16.3	2.2	4.3	14.3	4.3
13	19.9	5.2	3.0	10.5	5.4	0.9	0.0	15.6	1.9	3.4	10.0	4.1
14	12.8	7.0	3.6	11.9	4.5	0.7	-0.1	14.0	1.6	2.9	7.3	4.0
15	12.0	6.4	4.8	14.8	4.2	1.0	-0.1	10.5	1.4	2.6	6.4	3.9
16	32.4	5.7	6.3	14.1	4.0	1.2	0.0	5.0	1.3	2.3	5.7	3.4
17	23.4	5.0	7.5	11.5	4.2	1.1	0.1	4.0	1.2	1.1	5.0	3.1
18	15.2	4.5	11.7	9.8	7.2	3.5	0.0	3.2	1.0	3.6	4.7	3.0
19	12.0	4.4	11.0	7.9	7.3	3.8	1.0	3.5	0.8	6.6	4.4	3.6
20	17.9	4.6	10.6	7.6	5.9	3.3	0.8	2.8	0.7	7.6	4.5	4.9
21	23.4	5.0	8.8	7.1	6.0	3.2	1.3	2.6	0.6	6.0	4.3	8.4
22	16.3	5.6	7.5	6.3	8.2	2.7	1.5	2.4	0.5	6.8	4.1	9.5
23	32.6	5.0	6.5	5.9	6.9	2.5	1.2	2.0	1.5	7.5	4.5	8.0
24	32.0	5.0	6.2	5.6	6.4	2.2	1.0	1.8	1.7	6.5	4.3	6.8
25	20.9	4.8	7.5	6.0	8.2	2.0	0.8	1.6	1.6	5.3	5.0	6.0
26	19.0	4.5	7.7	5.9	7.7	1.8	0.9	1.7	1.5	4.5	4.6	5.3
27	17.8	4.2	7.0	5.8	6.2	1.5	2.2	1.8	1.5	4.2	4.3	4.9
28	12.2	4.0	6.5	6.3	4.9	1.3	3.2	1.6	7.0	3.9	3.9	4.4
29	9.5	.....	12.5	6.5	4.3	1.5	4.3	1.5	3.5	3.7	3.6	4.1
30	7.0	.....	12.3	5.9	3.9	1.2	4.8	1.4	2.8	3.4	3.6	4.0
31	6.5	.....	11.2	.....	3.5	.....	4.5	1.3	.....	3.0	.....	3.8

1899.

1	6.5	5.0	22.5	24.5	6.7	3.8	1.7	1.9	0.2	-0.6	-0.4	0.2
2	8.0	4.9	15.0	15.0	5.9	4.0	1.6	1.8	0.1	-0.6	-0.4	0.2
3	9.0	5.4	12.8	9.3	5.3	4.9	1.5	1.7	0.0	-0.6	-0.3	0.2
4	8.0	24.3	23.5	9.0	5.0	4.5	1.4	1.5	0.0	-0.6	-0.3	0.2
5	9.6	35.0	56.5	15.9	4.8	3.9	1.3	1.3	-0.1	-0.6	-0.4	0.2
6	16.7	45.6	55.5	14.9	10.5	3.3	1.3	1.0	-0.2	-0.6	-0.4	0.2
7	52.4	40.9	39.0	13.7	20.4	2.9	1.2	0.9	-0.3	-0.7	-0.4	0.2
8	43.0	33.1	27.3	29.0	35.0	2.6	1.3	0.8	-0.4	-0.6	-0.4	0.2
9	29.7	24.5	17.8	24.5	30.2	2.5	1.5	0.7	-0.5	-0.5	-0.4	0.2
10	20.9	15.2	12.0	20.9	21.7	2.3	1.4	0.6	-0.4	-0.5	-0.4	0.1
11	14.0	12.5	8.7	15.1	16.0	2.2	1.3	0.5	-0.3	-0.6	-0.4	0.1
12	17.5	10.1	7.9	12.1	16.5	2.1	1.3	1.5	-0.4	-0.4	-0.2	0.2
13	15.0	8.0	7.1	9.6	14.2	2.0	1.2	2.4	-0.4	-0.4	-0.2	0.2
14	15.1	6.0	6.5	8.4	13.4	2.4	1.1	2.6	-0.5	-0.4	-0.3	4.3
15	14.8	5.1	10.5	7.3	11.5	3.1	1.0	3.0	-0.5	-0.4	-0.3	3.6
16	13.8	4.9	18.5	6.5	9.8	3.3	0.9	2.4	-0.6	-0.5	-0.3	3.1
17	10.9	7.1	17.8	5.9	7.0	2.9	1.0	2.0	-0.6	-0.5	-0.3	3.0
18	9.8	9.7	13.9	5.4	5.4	2.5	1.1	1.9	-0.6	-0.5	-0.2	2.9
19	8.4	13.3	23.7	5.2	5.1	2.2	1.3	1.7	-0.6	-0.5	-0.2	2.8
20	7.3	16.0	30.5	4.7	4.9	2.0	1.2	1.5	-0.6	-0.5	-0.2	3.6
21	6.5	15.3	24.1	4.4	4.4	1.9	1.1	1.3	-0.6	-0.5	-0.2	6.1
22	6.0	13.5	18.0	4.3	4.0	1.8	1.0	1.2	-0.6	-0.5	-0.2	5.0
23	5.5	12.0	13.3	4.1	3.7	1.7	1.5	1.1	-0.6	-0.5	-0.1	4.0
24	5.3	10.4	11.8	4.0	3.5	1.7	2.7	1.0	-0.7	-0.5	-0.1	4.7
25	17.0	9.0	11.0	12.1	3.4	1.6	3.0	0.8	-0.6	-0.5	-0.1	7.8
26	19.3	8.6	11.5	22.7	3.3	1.7	2.8	0.7	-0.6	-0.5	-0.1	7.0
27	14.0	28.0	11.1	17.8	3.1	1.9	2.6	0.6	-0.6	-0.5	0.1	5.7
28	12.3	32.3	23.7	12.8	2.8	2.0	2.5	0.5	-0.6	-0.5	0.1	4.7
29	9.5	.....	49.5	9.7	2.5	1.9	2.3	0.5	-0.5	-0.4	0.1	3.9
30	7.0	.....	43.2	8.0	2.4	1.8	2.2	0.4	-0.6	-0.4	0.1	3.3
31	5.5	.....	31.0	.....	2.8	.....	2.0	0.3	.....	-0.4	.....	2.9

157.5 at 9 a. m.

DAILY RIVER STAGES.

339

Ohio River system—Cumberland River, Carthage, Tenn.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.3	4.5	3.0	30.0	2.5	7.0	2.2	5.8	1.2	4.3	-----	25.1
2	6.8	7.7	2.9	40.0	2.5	9.8	2.3	4.7	1.0	3.0	-----	22.6
3	6.0	18.0	2.7	44.5	2.3	9.7	3.4	4.1	0.9	2.0	-----	18.8
4	5.8	20.8	2.6	45.2	2.1	9.5	3.6	3.7	0.8	1.8	-----	13.1
5	5.6	20.7	2.4	44.0	2.1	10.4	4.0	3.8	1.0	1.4	-----	8.2
6	5.5	19.5	2.5	42.9	2.0	8.4	8.0	3.2	0.8	1.1	-----	5.5
7	5.2	17.4	5.3	38.0	1.9	4.5	9.2	3.0	0.7	0.9	-----	4.7
8	4.9	14.6	7.4	33.0	1.9	4.0	10.0	2.7	0.6	0.7	-----	4.0
9	4.5	13.9	7.6	21.0	2.0	4.0	10.0	2.4	0.5	0.9	-----	4.3
10	4.1	15.3	8.8	9.6	1.5	3.0	9.6	2.3	0.4	1.0	-----	5.9
11	3.9	15.7	8.8	7.0	1.4	3.0	9.0	2.1	0.5	0.9	-----	5.8
12	3.5	14.3	8.0	6.5	1.2	3.9	9.3	1.9	0.4	0.8	2.0	6.0
13	3.3	13.3	7.3	6.0	1.0	4.0	10.4	1.8	0.4	0.7	1.8	5.8
14	2.9	14.7	6.8	5.0	1.0	3.2	10.7	2.3	0.3	0.7	1.9	5.5
15	2.7	16.2	6.8	4.5	1.0	2.5	11.5	2.4	0.3	0.6	2.1	6.1
16	2.5	17.6	13.0	4.0	0.9	2.7	14.3	2.1	0.2	0.5	1.9	5.9
17	2.1	18.1	20.5	4.0	0.7	2.2	23.0	1.9	0.3	0.4	1.7	5.3
18	2.0	16.2	25.6	3.5	0.6	2.0	27.0	1.7	0.4	0.3	1.6	4.9
19	1.9	12.7	29.1	3.2	0.5	1.9	27.5	1.5	0.5	0.2	1.6	4.5
20	1.8	9.5	32.3	3.0	0.7	1.8	28.0	1.7	0.3	0.2	1.7	4.1
21	1.7	7.4	33.3	2.8	0.6	1.6	25.5	1.5	0.2	0.2	1.8	3.8
22	1.6	6.0	32.0	2.5	0.5	1.5	19.5	1.4	0.3	1.0	1.8	3.6
23	1.6	5.0	28.8	2.7	0.6	1.4	13.0	1.2	0.2	1.1	1.7	3.4
24	1.6	4.5	23.4	2.6	3.2	1.6	10.0	1.0	0.1	0.9	1.7	3.2
25	1.6	4.0	17.0	2.9	2.9	1.5	9.0	1.2	0.1	0.7	1.6	3.0
26	2.0	3.8	12.8	2.9	2.0	1.4	12.5	1.3	0.1	0.6	1.7	2.8
27	2.2	3.7	11.0	2.9	3.5	1.5	12.9	1.3	0.1	0.5	1.7	2.5
28	2.2	3.4	10.0	2.8	4.5	1.6	12.3	1.4	0.1	-----	16.2	2.4
29	2.8	3.3	9.3	2.9	4.8	2.1	14.5	1.3	2.2	-----	23.9	2.4
30	4.0	-----	12.0	2.9	4.0	2.7	11.9	1.4	3.9	-----	26.6	2.3
31	3.8	-----	15.8	-----	3.8	-----	8.9	1.5	-----	-----	-----	2.2

1897.

1	2.1	3.4	28.4	11.8	7.1	2.7	3.3	4.2	1.7	0.2	0.1	0.9
2	2.1	5.6	15.4	18.6	9.0	2.6	2.6	3.7	1.6	0.2	0.1	0.8
3	2.0	8.5	8.8	20.0	10.5	2.4	2.1	3.3	1.5	0.2	0.2	1.0
4	2.2	11.1	8.5	23.0	12.3	2.3	2.6	2.8	1.4	0.2	0.2	3.4
5	2.9	12.8	9.6	35.2	13.3	2.4	2.5	2.9	1.3	0.2	0.1	3.6
6	3.3	14.5	11.8	41.8	12.9	2.3	2.3	2.9	1.2	0.2	0.2	3.3
7	4.0	16.8	16.2	42.5	11.0	2.3	3.1	6.5	1.1	0.2	0.2	3.3
8	3.8	17.4	19.6	40.8	9.2	2.2	3.2	4.8	1.0	0.1	0.2	3.2
9	3.5	18.1	20.0	39.9	7.6	2.2	3.2	3.8	0.9	0.1	0.6	2.8
10	3.5	18.4	24.6	38.4	6.7	2.1	3.1	3.9	0.8	0.1	0.5	2.4
11	3.4	17.1	32.1	31.8	6.0	2.1	3.2	3.5	0.8	0.1	0.5	2.3
12	3.2	14.2	36.3	21.8	7.5	2.0	3.2	3.5	0.7	0.2	0.4	2.2
13	3.1	11.9	38.3	13.7	9.6	1.9	3.2	3.7	0.7	0.3	0.4	1.9
14	13.0	11.5	41.9	11.0	18.6	1.9	3.0	3.2	0.7	0.3	0.4	1.8
15	14.5	11.6	44.1	10.6	24.9	1.8	2.6	2.7	0.7	0.2	0.3	1.6
16	13.6	11.4	46.1	11.2	26.3	1.8	6.0	2.4	0.6	0.2	0.3	1.6
17	15.4	10.4	44.2	11.0	25.9	2.0	5.6	2.3	1.0	0.2	0.4	1.5
18	15.9	9.0	40.9	11.3	23.4	1.8	7.1	2.2	1.3	0.2	0.4	1.5
19	12.6	7.8	37.0	10.7	17.1	1.7	6.1	1.9	1.3	0.2	0.3	1.8
20	11.0	7.2	41.4	9.8	10.8	2.0	8.7	1.9	1.2	0.1	0.3	4.1
21	10.4	12.7	42.9	8.6	7.2	2.0	9.0	1.7	0.8	0.1	0.4	9.8
22	9.8	19.1	41.0	7.5	6.0	2.5	8.8	1.9	0.6	0.1	0.4	11.0
23	9.5	28.7	36.9	6.7	5.3	2.2	8.2	4.1	0.5	0.1	0.4	12.4
24	8.7	33.8	32.2	5.9	4.7	2.0	7.5	2.5	0.4	0.1	0.4	12.8
25	8.0	37.0	25.6	5.4	4.2	2.6	10.9	2.2	0.4	0.1	0.3	10.9
26	7.0	37.7	17.5	6.3	3.9	2.5	12.6	2.2	0.3	0.1	0.3	8.4
27	6.4	37.5	12.1	7.9	3.7	2.8	12.4	2.2	0.3	0.1	0.9	6.5
28	5.6	35.0	9.7	7.5	3.3	3.5	8.9	2.2	0.3	0.1	0.9	5.3
29	4.8	-----	8.5	7.3	3.2	3.8	7.3	2.1	0.3	0.1	0.9	4.5
30	3.8	-----	7.7	7.6	2.9	4.0	5.9	2.0	0.2	0.0	0.9	4.0
31	3.0	-----	7.8	-----	2.8	-----	4.9	1.9	-----	0.0	-----	3.6

Ohio River system—Cumberland River, Carthage, Tenn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.4	9.3	4.2	16.3	8.2	3.4	2.2	4.3	1.6	3.4	3.4	3.6
2	3.1	7.7	4.1	14.4	7.5	3.2	2.1	4.4	1.4	2.7	3.1	3.6
3	2.9	6.7	4.0	14.6	6.7	2.8	2.0	4.2	1.3	2.2	2.8	3.5
4	2.8	5.8	3.7	12.3	6.0	2.5	2.0	4.6	1.3	2.0	2.6	3.9
5	2.6	5.2	3.7	11.1	5.3	2.3	1.8	4.3	1.5	1.4	2.5	4.7
6	2.6	4.9	3.5	13.1	5.3	2.2	1.8	3.5	1.6	2.0	3.2	5.5
7	2.8	4.4	3.5	14.4	6.9	2.1	1.7	3.2	2.0	2.4	3.8	6.7
8	3.2	4.1	3.4	13.7	7.4	1.9	1.5	3.0	2.3	3.6	4.1	8.5
9	2.9	4.0	3.3	12.8	6.8	1.8	1.4	5.9	2.9	5.0	4.7	8.4
10	4.1	3.9	3.2	11.4	6.7	1.7	1.3	17.2	3.8	3.9	5.7	7.2
11	7.7	3.7	3.0	11.5	7.8	1.6	1.1	15.9	3.3	5.1	7.3	6.0
12	18.4	3.8	3.0	12.8	7.9	1.6	1.0	19.7	3.1	4.9	8.3	5.1
13	20.9	4.0	3.0	12.0	7.0	1.7	0.9	19.9	2.8	4.0	11.2	4.5
14	22.5	4.2	3.5	12.7	6.1	1.5	0.9	16.2	2.4	3.6	12.2	4.1
15	24.8	4.8	5.0	15.3	5.3	1.8	0.9	13.5	2.0	2.7	10.4	3.7
16	28.5	6.0	6.2	16.9	4.9	2.0	0.8	10.9	1.8	2.1	8.2	3.4
17	30.0	6.1	8.5	17.1	4.6	2.5	0.8	7.7	1.7	1.8	6.9	3.2
18	28.9	5.7	12.3	15.7	4.7	2.0	0.8	5.3	1.5	2.7	6.0	3.0
19	26.5	5.1	14.4	15.0	4.4	1.9	0.8	4.0	1.3	3.0	5.2	3.2
20	27.1	4.9	15.3	14.7	5.1	2.1	1.0	3.8	1.1	3.7	4.8	4.4
21	27.7	4.9	14.2	13.8	5.9	2.3	1.2	3.2	1.0	4.1	4.4	5.2
22	26.9	5.2	12.0	11.5	5.6	3.4	1.3	3.3	1.1	7.6	4.0	6.6
23	31.9	5.5	10.1	9.7	5.5	3.2	1.1	2.8	1.3	8.0	4.1	7.4
24	34.0	5.7	8.6	9.2	5.9	2.9	1.3	2.6	1.5	7.4	4.2	8.3
25	34.1	5.4	7.9	9.7	6.3	2.5	1.3	2.4	1.6	7.0	4.4	7.6
26	33.4	5.0	8.2	9.0	6.0	2.4	2.0	2.2	1.5	6.1	4.5	6.6
27	32.4	4.9	8.4	8.9	6.3	2.1	2.9	2.1	1.4	5.8	4.5	5.5
28	27.9	4.8	9.3	10.2	5.9	2.6	2.7	2.0	1.3	5.2	4.4	5.0
29	21.8		17.0	10.1	5.3	2.8	2.7	1.8	1.2	4.8	4.0	4.5
30	15.8			9.2	4.5	2.3	5.0	1.8	1.1	4.0	3.8	4.2
31	11.9		17.5		3.8		4.7	1.7		3.5		4.2

1899.

1	5.2	7.7	29.9	36.0	10.5	2.7	1.4	3.0	0.7	0.1	0.3	0.8
2	5.9	6.7	29.0	35.9	8.4	3.2	1.4	2.6	0.6	0.1	0.4	0.8
3	6.6	6.5	26.8	33.8	7.0	4.0	1.4	2.3	0.5	0.1	0.3	0.7
4	7.5	14.7	22.9	28.3	6.3	4.2	1.3	2.0	0.5	0.1	0.3	0.7
5	8.9	25.2	26.5	21.5	5.9	3.8	1.1	1.9	0.4	0.0	0.3	0.6
6	14.6	34.7	32.6	17.5	6.6	4.0	1.2	2.1	0.4	0.1	0.2	0.7
7	28.9	40.4	36.0	17.3	8.2	3.5	1.0	2.5	0.3	0.1	0.2	0.6
8	37.5	41.7	37.5	22.9	18.2	3.3	1.2	2.5	0.3	0.1	0.2	0.6
9	38.6	41.4	38.5	27.7	22.7	2.9	1.0	2.0	0.3	0.1	0.2	0.6
10	37.3	39.9	39.0	28.5	24.8	2.9	0.9	1.9	0.2	0.2	0.3	0.6
11	37.5	36.8	37.2	28.4	25.9	2.6	0.9	1.6	0.1	0.3	0.3	1.1
12	36.9	28.2	28.6	25.9	25.0	2.5	0.8	1.5	0.1	0.3	0.3	4.0
13	32.6	17.0	16.0	20.0	21.7	2.4	0.8	1.4	0.1	0.3	0.2	4.3
14	26.6	8.5	9.7	14.7	17.4	2.3	0.7	1.3	0.1	0.2	0.2	7.1
15	22.5	6.9	10.0	11.2	14.8	2.5	0.7	1.3	0.1	0.3	0.4	4.8
16	19.6	6.0	16.7	9.4	12.8	2.2	0.7	1.2	0.1	0.3	0.5	3.9
17	17.6	7.3	23.2	8.2	10.7	2.2	0.6	1.9	0.1	0.2	0.3	4.6
18	15.1	9.0	22.1	7.4	8.6	2.6	0.6	2.0	0.1	0.5	0.3	4.0
19	12.8	10.8	24.7	6.8	7.2	2.6	0.7	1.8	0.1	0.3	0.2	4.5
20	10.8	12.9	28.6	6.3	6.2	2.4	0.6	1.7	0.1	0.2	0.3	6.1
21	9.4	14.8	31.0	6.8	5.4	2.2	0.9	1.5	0.1	0.4	0.2	8.0
22	8.0	16.0	29.6	5.4	4.9	2.0	1.3	1.4	0.1	0.3	0.3	7.5
23	7.4	15.7	27.5	5.1	4.6	1.9	3.2	1.2	0.1	0.3	0.3	6.4
24	6.7	14.3	23.9	6.5	4.3	1.8	3.8	1.1	0.1	0.3	0.3	8.6
25	9.4	12.5	18.7	11.0	3.9	1.6	2.9	0.9	0.2	0.2	0.3	9.7
26	9.7	13.4	14.1	13.0	3.7	1.6	2.8	0.8	0.2	0.2	0.4	9.3
27	14.9	22.5	14.5	14.1	3.4	1.6	3.4	0.9	0.2	0.3	0.6	8.0
28	16.7	28.2	18.5	17.2	3.2	1.5	4.5	0.8	0.1	0.2	0.7	7.7
29	14.0		31.3	16.9	2.9	1.5	3.4	0.7	0.1	0.3	0.7	6.6
30	13.6		34.7	13.2	2.8	1.5	4.0	0.6	0.1	0.3	0.7	5.4
31	9.0		35.8		2.7		3.5	0.8		0.2		4.5

DAILY RIVER STAGES.

341

*Ohio River system—Cumberland River, Nashville, Tenn.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.4	7.9	5.5	30.1	6.5	9.7	3.9	12.5	2.0	3.5	0.9	28.9
2	12.7	16.3	5.2	36.9	5.9	11.0	5.3	10.0	2.0	5.6	0.8	28.5
3	10.7	21.9	4.9	38.8	5.7	12.7	7.6	8.6	1.8	5.2	0.8	26.9
4	9.7	24.2	4.7	40.5	5.7	12.6	7.1	6.8	1.7	4.1	0.8	24.1
5	8.0	25.0	4.5	41.9	5.2	12.5	11.3	5.8	1.5	3.1	0.8	19.7
6	8.5	25.4	6.0	42.6	4.8	12.9	9.9	5.4	1.4	2.5	0.8	14.8
7	8.3	24.8	10.4	42.9	4.6	11.1	11.4	5.2	1.5	2.0	0.7	10.5
8	8.1	22.7	11.1	42.5	4.4	8.9	12.7	4.7	1.3	1.8	0.8	8.0
9	7.7	21.2	11.5	40.4	4.2	7.3	13.1	4.2	1.1	1.6	0.8	7.8
10	7.2	20.4	11.7	31.8	4.1	6.5	12.9	3.8	1.1	1.4	0.8	8.0
11	6.7	20.5	12.4	20.2	3.9	5.9	12.9	3.5	1.0	1.4	0.8	8.0
12	6.3	20.2	12.4	12.5	3.7	5.4	12.4	3.2	1.0	1.6	1.5	8.9
13	5.9	20.8	11.7	9.9	3.4	5.7	12.8	2.9	1.0	1.7	2.0	8.8
14	5.5	21.8	10.7	8.8	3.1	6.0	14.3	2.7	0.9	1.6	3.0	8.7
15	5.1	21.0	10.7	8.1	2.9	5.6	15.5	2.6	0.9	1.5	2.7	10.0
16	4.7	21.3	19.1	7.0	2.8	5.1	16.1	3.1	0.8	1.4	2.6	10.8
17	4.3	21.9	23.7	7.0	2.6	4.5	20.3	3.3	0.8	1.3	2.9	10.1
18	4.1	21.9	26.3	6.5	2.5	4.0	24.7	3.0	0.8	1.1	2.6	9.1
19	3.8	20.3	31.9	6.1	2.4	3.7	26.9	2.7	0.9	1.0	2.3	8.2
20	3.1	17.4	34.3	5.8	2.6	3.4	28.0	2.4	0.9	0.9	2.1	9.5
21	3.4	14.0	34.9	5.6	2.7	3.2	28.3	2.1	0.9	0.9	2.0	6.8
22	3.3	11.3	35.2	5.6	2.6	3.0	28.8	2.0	0.9	0.8	2.0	6.3
23	3.2	9.5	34.5	5.3	2.6	2.9	24.6	1.9	0.8	0.8	2.2	5.8
24	3.2	8.3	32.4	5.1	2.6	2.8	19.1	1.9	0.7	0.9	2.2	5.4
25	3.3	7.4	28.1	4.9	2.4	3.1	16.0	1.8	0.7	1.5	2.1	5.0
26	3.3	6.6	22.8	5.0	4.6	3.3	16.0	1.9	0.7	1.5	1.9	4.7
27	3.4	6.1	18.4	5.6	4.7	2.9	15.6	1.9	0.7	1.4	2.2	4.3
28	3.7	5.9	15.7	6.7	5.0	2.8	15.0	1.8	0.8	1.0	11.0	4.1
29	3.9	5.7	14.1	5.8	6.6	3.3	15.2	1.8	0.9	1.1	26.7	3.8
30	4.0		15.0	6.0	6.4	3.2	15.9	1.9	2.2	1.0	28.8	3.6
31	5.7		19.8		6.3		15.2	1.8		0.9		3.5

1897.

1	3.2	6.2	37.4	17.8	11.7	4.1	5.2	7.1	2.7	0.4	0.2	1.3
2	3.1	9.8	35.0	23.7	10.9	3.8	4.7	6.0	2.4	0.4	0.2	1.4
3	3.0	11.0	27.3	25.1	11.0	3.6	4.0	5.2	2.2	0.3	0.2	1.5
4	3.3	12.2	20.0	34.2	13.0	3.4	3.4	4.6	2.0	0.2	0.2	4.3
5	3.4	14.6	15.1	38.2	15.0	3.3	3.8	4.2	1.9	0.2	0.3	6.5
6	3.8	18.0	15.0	38.8	16.4	3.3	3.8	4.0	1.8	0.2	0.3	6.1
7	5.0	21.1	18.7	40.1	16.6	3.3	3.4	4.1	1.8	0.2	0.3	5.2
8	5.6	22.1	20.5	41.1	15.4	3.2	3.8	7.4	1.6	0.2	0.4	4.7
9	5.6	22.8	23.2	42.2	13.5	3.1	4.1	7.2	1.5	0.2	0.6	4.5
10	5.2	23.0	26.3	42.2	11.7	3.0	4.3	5.7	1.4	0.1	0.5	4.2
11	5.0	23.1	29.9	41.4	10.4	2.9	4.4	5.2	1.2	0.1	0.7	3.7
12	4.9	22.3	33.5	38.9	9.9	2.9	4.5	4.8	1.1	0.2	0.8	3.4
13	6.1	20.4	36.6	31.6	12.2	2.8	4.3	4.5	1.0	0.2	0.8	3.2
14	15.6	17.9	39.5	23.9	14.4	2.6	4.2	4.8	1.0	0.2	0.8	3.0
15	18.5	16.3	41.6	20.4	19.5	2.5	4.2	4.6	0.9	0.3	0.7	2.8
16	19.0	15.9	42.4	17.6	25.1	2.4	6.2	3.9	0.9	0.3	0.7	2.5
17	19.4	15.6	43.3	16.4	27.6	2.3	8.4	3.4	1.4	0.4	0.7	2.3
18	20.9	14.8	43.9	15.8	28.2	2.4	8.2	3.2	2.2	0.3	0.7	2.2
19	19.7	13.5	45.5	15.4	27.0	2.5	9.1	3.0	1.8	0.3	0.7	2.2
20	17.7	12.0	48.6	14.8	23.4	2.3	8.8	2.7	1.4	0.3	0.7	4.1
21	16.2	14.2	48.7	13.7	18.0	2.2	11.1	2.5	1.5	0.2	0.7	11.9
22	15.0	18.5	47.3	12.4	12.9	2.5	11.9	2.4	1.4	0.2	0.7	15.2
23	14.1	26.2	46.3	11.0	9.7	2.8	11.6	3.9	1.2	0.1	0.7	16.2
24	13.4	30.9	45.0	9.9	8.2	3.0	11.1	5.6	0.9	0.1	0.8	16.4
25	12.5	33.5	42.7	9.1	7.2	2.9	10.4	4.2	0.8	0.0	0.7	16.3
26	11.5	35.6	38.4	9.4	6.5	3.0	13.5	3.2	0.7	0.0	0.8	14.7
27	10.4	36.9	31.0	9.8	5.9	3.4	15.6	3.0	0.6	0.0	0.8	12.3
28	9.3	37.5	22.8	10.9	5.4	3.4	15.1	2.8	0.5	0.1	1.0	10.0
29	8.2		16.8	10.8	5.0	4.1	12.4	2.9	0.5	0.1	1.2	8.2
30	7.2		14.5	11.2	4.7	4.7	10.2	2.9	0.5	0.0	1.4	7.0
31	6.2		13.8		4.4		8.5	2.9		0.0		6.2

Ohio River system—Cumberland River, Nashville, Tenn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.6	19.2	6.9	23.3	12.7	5.7	3.7	7.4	2.3	1.8	5.2	6.0
2	5.0	15.0	6.5	21.8	11.7	4.9	3.2	6.7	2.1	1.8	4.8	5.6
3	4.6	12.3	6.1	19.9	10.6	4.4	2.8	6.3	2.1	3.9	4.4	5.3
4	4.3	10.6	5.8	18.5	9.6	4.0	2.6	6.4	2.0	3.6	4.1	5.5
5	4.1	9.4	5.5	18.5	8.6	3.7	2.6	6.7	1.8	3.0	3.9	7.9
6	4.0	8.4	5.3	17.7	8.8	3.4	2.8	6.5	1.8	2.5	4.2	8.2
7	4.0	7.7	5.2	17.7	9.7	3.2	2.4	5.8	1.9	2.2	4.8	8.6
8	4.3	7.0	5.0	18.5	10.1	2.9	2.2	5.2	2.0	3.4	5.3	9.2
9	4.6	6.6	4.8	18.1	10.5	2.7	2.3	9.4	2.3	3.7	6.3	10.8
10	5.2	6.2	4.7	17.6	9.7	2.6	2.5	23.4	2.9	5.8	11.3	11.6
11	10.5	6.0	4.5	17.8	9.6	2.4	2.2	24.4	3.9	5.9	12.0	10.9
12	23.2	5.8	4.3	17.1	10.4	2.2	1.8	21.4	4.7	6.1	11.5	9.7
13	24.8	5.8	4.4	16.9	10.7	2.3	1.6	21.9	4.4	6.8	12.0	8.4
14	26.2	5.8	5.3	17.3	9.9	2.4	1.5	22.6	4.0	6.1	14.2	7.1
15	32.5	5.9	5.1	17.6	8.8	2.1	3.4	21.2	3.7	5.2	15.3	6.4
16	34.6	6.4	8.9	19.5	7.7	2.4	2.6	18.5	3.1	4.5	14.0	5.4
17	33.5	7.5	9.6	20.8	6.9	3.4	1.9	15.7	2.7	4.0	11.9	5.3
18	33.0	8.5	13.4	21.2	6.3	4.3	1.7	12.6	2.4	4.5	10.2	5.0
19	33.7	8.4	18.4	20.7	6.2	4.0	1.7	9.4	2.1	4.6	8.9	4.9
20	36.4	7.8	19.3	22.9	6.1	4.3	3.3	7.0	2.0	4.4	8.0	6.7
21	34.8	7.2	19.4	20.7	6.6	3.7	2.4	5.7	1.9	4.6	7.1	7.7
22	36.6	7.1	18.5	18.9	7.8	3.2	2.2	5.1	2.3	6.9	7.0	8.1
23	38.8	7.3	16.8	16.9	7.7	3.4	1.9	4.7	2.4	9.8	6.9	9.1
24	38.2	7.6	15.0	15.0	7.4	4.5	2.0	4.5	2.0	10.8	6.9	10.0
25	38.0	7.8	13.9	13.6	7.9	4.3	2.4	4.1	1.7	10.3	6.5	11.0
26	38.1	7.9	12.6	13.3	8.4	4.4	3.3	3.6	1.8	9.8	6.5	11.0
27	37.3	7.5	12.9	13.3	8.2	3.4	7.2	3.4	2.0	9.3	6.6	10.1
28	36.0	7.1	13.5	12.9	8.2	3.1	7.2	3.0	1.9	8.6	6.6	8.9
29	32.9	-----	19.0	13.4	8.1	2.9	5.9	2.7	1.8	7.6	6.5	7.8
30	28.0	-----	22.8	13.8	7.4	3.6	4.7	2.5	1.8	6.4	6.1	7.1
31	22.3	-----	24.0	-----	6.4	-----	5.9	2.4	-----	6.0	-----	6.6

1899.

1	7.4	14.0	31.1	37.1	18.7	4.1	2.0	5.8	1.4	0.7	0.8	0.8
2	8.3	12.0	32.3	37.4	15.7	4.0	2.0	4.9	1.2	0.6	0.8	0.8
3	8.7	10.5	32.3	37.4	12.9	4.0	1.9	4.2	1.1	0.6	0.8	0.8
4	9.5	14.3	31.7	37.6	10.9	4.9	1.9	3.8	1.2	0.7	0.8	0.8
5	12.1	25.4	34.4	36.0	9.7	5.6	1.9	3.2	1.2	0.7	0.8	0.8
6	17.4	32.5	33.7	31.0	9.0	5.6	1.8	3.3	1.0	0.6	0.8	1.3
7	27.5	36.0	34.6	26.6	10.0	5.4	1.7	3.7	1.0	0.6	0.8	1.3
8	31.8	38.5	36.0	27.4	12.8	5.3	1.7	4.0	1.0	0.7	0.8	1.3
9	34.3	39.6	37.2	28.1	19.3	5.0	1.7	3.8	1.4	0.6	0.8	1.2
10	36.4	40.4	38.2	30.0	23.8	4.5	1.7	3.5	1.1	0.6	0.8	1.2
11	38.0	40.8	38.8	31.2	26.4	4.1	1.7	3.2	0.9	0.7	0.8	2.1
12	39.5	39.0	39.0	31.5	28.3	4.0	1.7	2.8	0.9	0.7	0.8	5.3
13	39.6	38.0	36.6	30.2	29.4	3.7	1.5	2.6	0.8	0.7	0.8	7.4
14	39.9	29.0	28.7	26.6	27.8	3.5	1.5	2.5	0.7	0.8	0.7	6.2
15	37.7	19.9	22.0	22.0	24.1	3.3	1.4	1.9	0.7	0.8	0.8	8.8
16	33.8	13.2	19.5	17.3	20.5	3.2	1.3	1.8	0.6	0.8	1.0	8.4
17	29.8	12.1	22.0	14.4	17.9	3.3	1.3	2.8	0.6	0.9	0.9	6.7
18	26.6	13.8	25.8	12.5	15.5	3.3	1.3	2.0	0.6	1.0	0.9	6.2
19	22.4	16.2	31.1	11.3	13.5	3.1	1.3	2.4	0.6	0.9	0.9	6.7
20	19.2	17.1	31.7	10.3	11.4	3.5	1.1	2.6	0.6	0.8	0.9	10.3
21	16.7	18.2	32.0	9.5	9.7	3.6	1.2	2.7	0.6	0.8	0.9	10.2
22	14.6	19.6	33.0	8.8	8.5	3.3	1.4	2.6	0.6	0.8	1.0	10.4
23	13.0	21.7	33.2	8.6	7.7	3.0	2.0	2.3	0.6	0.8	0.9	10.9
24	11.8	20.7	32.3	10.9	7.0	2.8	3.9	2.0	0.6	0.8	0.9	13.7
25	12.8	19.6	29.6	14.7	6.6	2.5	5.4	1.8	0.6	0.8	0.9	13.7
26	14.4	22.6	25.5	15.1	6.0	2.4	7.2	1.7	0.6	0.8	0.9	13.3
27	15.1	29.8	22.5	16.8	5.5	2.4	6.4	1.6	0.6	0.8	0.9	12.9
28	17.6	30.2	24.3	18.0	5.2	2.3	5.5	1.5	0.7	0.8	0.9	11.8
29	19.8	-----	34.9	20.0	4.8	2.2	6.5	1.8	0.7	0.8	0.8	11.1
30	19.2	-----	35.8	20.5	4.4	2.1	6.2	1.6	0.7	0.8	0.8	10.2
31	16.8	-----	36.5	-----	4.3	-----	7.0	1.4	-----	0.8	-----	9.5

DAILY RIVER STAGES.

343

*Ohio River system (Tennessee River branch)—Tennessee River, Knoxville, Tenn.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.7	1.8	1.0	18.0	-----	-----	-----	-----	-----	-----	-----	10.0
2	2.0	3.2	1.0	28.0	-----	-----	-----	-----	-----	-----	-----	6.0
3	2.0	3.5	0.8	28.7	-----	-----	-----	-----	-----	-----	-----	5.0
4	1.7	3.8	0.8	15.3	-----	-----	-----	-----	-----	-----	-----	3.3
5	1.5	3.5	0.8	7.7	-----	-----	-----	-----	-----	-----	-----	2.5
6	1.0	3.3	0.7	6.0	-----	-----	-----	-----	-----	-----	-----	2.3
7	0.6	5.4	0.9	5.5	-----	-----	-----	-----	-----	-----	-----	2.0
8	0.8	5.0	1.0	-----	-----	-----	-----	-----	-----	-----	-----	2.0
9	0.8	5.0	1.0	-----	-----	-----	-----	-----	-----	-----	-----	1.8
10	0.9	4.5	0.8	-----	-----	-----	-----	-----	-----	-----	-----	1.7
11	0.8	5.9	0.9	-----	-----	-----	-----	-----	-----	-----	-----	1.6
12	0.8	4.0	0.6	-----	-----	-----	-----	-----	-----	-----	-----	1.8
13	0.7	3.9	0.6	-----	-----	-----	-----	-----	-----	-----	-----	1.7
14	0.6	5.8	0.6	-----	-----	-----	-----	-----	-----	-----	-----	1.6
15	0.5	5.0	0.5	-----	-----	-----	-----	-----	-----	-----	-----	1.7
16	0.5	4.3	1.0	-----	-----	-----	-----	-----	-----	-----	-----	1.4
17	0.5	4.0	3.0	-----	-----	-----	-----	-----	-----	-----	-----	1.4
18	0.5	3.0	6.0	-----	-----	-----	-----	-----	-----	-----	-----	1.6
19	0.5	2.5	6.2	-----	-----	-----	-----	-----	-----	-----	-----	2.2
20	0.5	1.3	4.3	-----	-----	-----	-----	-----	-----	-----	-----	2.1
21	0.4	1.8	3.8	-----	-----	-----	-----	-----	-----	-----	-----	1.6
22	0.5	1.5	3.4	-----	-----	-----	-----	-----	-----	-----	-----	1.2
23	0.6	1.5	3.2	-----	-----	-----	-----	-----	-----	-----	-----	1.0
24	0.9	1.5	3.5	-----	-----	-----	-----	-----	-----	-----	-----	1.0
25	3.8	1.5	2.8	-----	-----	-----	-----	-----	-----	-----	-----	1.1
26	3.7	1.3	2.3	-----	-----	-----	-----	-----	-----	-----	-----	1.0
27	3.3	1.2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	1.1
28	3.2	1.2	2.0	-----	-----	-----	-----	-----	-----	-----	-----	1.2
29	1.8	1.1	2.0	-----	-----	-----	-----	-----	-----	-----	-----	1.0
30	0.5	-----	3.2	-----	-----	-----	-----	-----	-----	-----	-----	0.9
31	1.2	-----	10.2	-----	-----	-----	-----	-----	-----	-----	-----	0.9

1897.

1	1.0	1.8	4.5	-----	-----	2.2	2.6	2.1	1.3	0.2	0.1	0.6
2	0.9	2.7	3.5	-----	-----	2.0	2.5	2.0	1.2	0.1	0.1	0.5
3	0.8	4.0	3.5	-----	-----	2.0	2.5	1.8	1.2	0.1	0.1	0.5
4	1.0	3.5	3.5	-----	-----	2.5	2.4	1.7	1.3	0.0	0.2	0.6
5	1.0	3.5	3.8	-----	-----	2.3	2.4	1.6	1.3	0.0	0.3	1.0
6	1.0	3.1	7.4	-----	-----	2.2	2.2	1.8	1.2	0.0	0.3	1.2
7	0.9	7.0	13.8	-----	-----	2.1	2.4	1.8	1.2	-0.1	0.3	1.6
8	0.9	11.2	12.0	-----	-----	2.0	2.5	2.2	1.1	-0.1	0.3	1.5
9	0.9	8.5	13.0	-----	-----	2.0	2.4	3.2	1.1	-0.2	0.4	1.4
10	0.8	5.8	12.0	-----	-----	2.0	2.2	3.0	1.0	-0.2	0.4	1.4
11	0.8	4.5	22.5	-----	-----	2.0	2.6	2.7	0.9	-0.2	0.5	1.4
12	0.8	4.0	22.0	-----	-----	2.1	3.0	2.2	0.9	-0.2	0.5	1.3
13	0.8	5.3	16.0	-----	-----	2.0	3.0	2.0	0.9	-0.2	0.5	1.3
14	1.5	6.0	14.8	-----	-----	2.1	2.8	1.7	0.8	-0.3	0.5	1.4
15	2.5	6.3	17.0	-----	-----	2.1	2.5	1.6	0.8	-0.3	0.4	1.4
16	2.5	4.5	14.5	-----	-----	2.0	2.7	1.5	0.7	-0.3	0.4	1.3
17	2.3	4.0	12.8	-----	-----	1.9	2.4	1.5	0.8	-0.3	0.5	1.3
18	2.5	3.5	12.5	-----	-----	1.8	2.4	1.6	1.0	-0.3	0.6	1.3
19	2.2	3.0	11.5	-----	-----	1.7	2.6	1.8	1.1	-0.3	0.7	1.4
20	2.4	2.8	13.0	-----	-----	1.8	2.4	1.8	0.9	-0.1	0.8	1.6
21	2.4	4.8	13.5	-----	-----	2.0	2.4	1.7	0.8	0.0	0.8	2.7
22	2.4	9.0	11.5	-----	-----	1.9	2.5	1.5	0.7	0.2	0.7	3.0
23	2.3	20.0	9.5	-----	-----	3.0	2.4	1.4	0.6	0.2	0.6	3.5
24	2.2	26.0	6.7	-----	-----	4.4	2.5	1.4	0.6	0.2	0.6	3.5
25	2.2	20.5	5.8	-----	-----	3.0	2.6	1.4	0.5	0.2	0.7	3.3
26	2.1	10.0	4.2	-----	-----	2.5	2.6	1.3	0.4	0.1	0.7	3.0
27	2.1	6.5	3.2	-----	-----	2.4	2.4	1.4	0.4	0.1	0.7	2.8
28	2.0	5.0	3.0	-----	-----	2.8	2.4	1.3	0.3	0.1	0.7	2.7
29	2.0	-----	3.0	-----	-----	2.7	2.2	1.2	0.3	-0.1	0.6	1.6
30	2.1	-----	3.0	-----	-----	2.7	2.3	1.2	0.2	0.1	0.6	1.8
31	2.1	-----	2.9	-----	-----	-----	2.3	1.3	-----	0.1	-----	1.7

DAILY RIVER STAGES.

Ohio River system (Tennessee River branch)—Tennessee River, Knoxville, Tenn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.4	3.8	1.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
2	1.2	3.5	1.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
3	1.2	3.1	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
4	1.0	2.9	2.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
5	0.8	2.6	2.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
6	0.7	2.7	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
7	1.0	2.9	2.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
8	1.0	2.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9	0.9	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	0.9	2.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11	1.0	2.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
12	6.0	2.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
13	5.5	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
14	5.0	2.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
15	5.0	2.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
16	4.5	2.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
17	4.4	1.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
18	4.3	1.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
19	4.3	1.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
20	6.5	1.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
21	6.8	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
22	7.0	2.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
23	6.3	2.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
24	5.5	2.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
25	5.7	2.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
26	7.3	1.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
27	8.9	1.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
28	6.5	1.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
29	4.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
30	4.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
31	4.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1899.

1	-----	0.6	8.6	7.4	1.7	0.9	0.6	0.4	0.2	-0.7	-0.8	-0.3
2	-----	0.6	6.2	6.0	1.6	1.1	0.3	0.2	1.0	-0.8	-0.2	-0.3
3	-----	0.8	5.8	5.0	1.4	1.1	0.0	0.1	0.8	-0.9	-0.1	-0.3
4	-----	6.0	13.4	5.2	1.3	1.0	-0.2	0.0	0.2	-0.9	-0.1	-0.2
5	-----	16.1	13.8	7.6	1.8	0.8	-0.4	-0.2	0.0	-1.0	-0.1	-0.3
6	-----	18.1	18.6	7.0	2.0	0.6	-0.2	-0.3	-0.2	-1.0	-0.2	-0.3
7	-----	¹ 21.9	15.8	5.4	3.2	0.5	-0.3	-0.4	-0.3	-1.1	-0.3	-0.5
8	-----	21.6	8.8	5.3	3.8	0.3	-0.3	-0.4	-0.3	-0.9	-0.5	-0.5
9	-----	15.4	6.1	5.9	4.8	0.3	-0.2	-0.4	-0.3	-0.4	-0.6	-0.6
10	-----	8.8	5.5	6.7	4.6	0.5	-0.2	-0.3	-0.3	0.0	-0.7	-0.7
11	-----	5.4	4.5	5.6	3.8	0.6	-0.2	-0.3	-0.2	0.2	-0.8	-0.8
12	-----	4.4	4.0	4.6	3.4	0.8	-0.1	0.1	0.1	0.1	-0.8	-0.6
13	-----	3.6	3.6	4.2	3.7	1.1	-0.3	0.2	0.0	-0.2	-0.9	4.0
14	-----	3.0	3.3	3.9	3.8	2.4	-0.4	0.2	-0.2	-0.3	-0.9	4.7
15	-----	1.4	10.9	3.4	4.2	2.5	-0.5	0.0	-0.3	-0.4	-1.0	4.3
16	-----	1.8	19.8	3.2	4.2	3.1	-0.6	0.0	-0.4	-0.5	-1.1	2.7
17	1.8	2.8	16.8	2.9	2.4	1.8	-0.6	-0.1	-0.5	-0.6	-1.1	2.0
18	1.9	6.4	10.4	2.6	1.8	1.4	-0.5	-0.3	-0.6	-0.7	-1.2	1.3
19	1.8	6.0	17.4	2.3	1.6	1.0	-0.4	-0.4	-0.7	-0.7	-1.2	1.2
20	1.6	5.1	² 27.4	2.2	1.5	0.8	-0.2	-0.5	-0.6	-0.8	-1.2	1.2
21	1.5	4.2	24.8	2.0	1.3	0.6	-0.2	-0.6	-0.4	-0.8	-1.3	1.0
22	1.2	3.7	13.0	1.9	1.2	0.4	-0.2	-0.7	-0.1	-0.9	-1.3	1.3
23	1.0	3.8	9.5	1.7	1.2	0.3	-0.3	-0.8	-0.2	-0.9	-1.3	1.2
24	0.9	3.8	7.8	1.6	1.1	0.1	-0.4	-0.9	-0.4	-1.0	-1.2	1.5
25	0.9	3.3	6.4	1.8	1.1	0.2	-0.3	-1.0	-0.6	-1.1	-1.1	2.8
26	1.0	2.9	5.9	2.0	1.0	0.6	-0.3	-1.0	-0.6	-1.1	-1.1	3.1
27	1.0	4.6	7.0	2.4	0.8	0.4	0.8	-1.1	-0.4	-1.2	-1.0	2.6
28	0.9	8.8	8.6	2.1	0.7	0.5	0.7	-1.2	-0.4	-1.2	-0.8	1.9
29	0.7	-----	11.6	2.0	0.6	1.0	2.1	-1.2	-0.5	-1.2	-0.4	1.6
30	0.6	-----	11.5	1.9	0.6	0.8	2.0	-0.6	-0.6	-1.0	-0.3	1.1
31	0.6	-----	9.8	-----	0.7	-----	0.8	-0.6	-----	-1.0	-----	1.0

¹ 23.1 at 3 p. m.² 28.2 at 3 p. m.

From January 17 to October 31, inclusive, 0.6 foot should be added to reduce readings to correct zero elevation.

DAILY RIVER STAGES.

345

*Ohio River system (Tennessee River branch)—Tennessee River, Rockwood, Tenn.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.9	3.5	2.2	11.5								9.7
2	3.9	5.2	2.1	27.4								10.2
3	3.7	7.5	2.0	31.4								8.0
4	3.6	7.4	2.0	29.4								6.3
5	3.4	6.4	1.9	26.0								4.6
6	3.2	5.7	1.9	17.0								4.0
7	3.1	8.5	1.9	10.2								3.7
8	3.1	7.9	2.5									3.6
9	3.1	7.7	2.5									3.2
10	2.9	8.2	2.5									3.2
11	2.8	7.2	2.5									3.8
12	2.7	6.8	2.5									3.4
13	2.6	6.7	3.0									3.2
14	2.6	8.5	2.8									3.2
15	2.5	9.2	2.6									3.1
16	2.5	8.9	2.6									3.1
17	2.4	7.5	7.0									3.1
18	2.3	6.8	9.2									3.1
19	2.2	5.9	9.6									3.3
20	2.2	4.4	9.2									3.4
21	2.1	4.2	7.0									3.3
22	2.1	4.0	6.0									3.3
23	2.2	3.9	5.7									3.2
24	3.8	3.7	5.3									3.0
25	4.9	3.3	4.7									2.9
26	5.5	2.9	4.5									2.8
27	4.8	2.6	4.4									2.8
28	4.2	2.4	4.4									2.7
29	3.9	2.3	4.4									2.5
30	3.5		4.6									2.4
31	3.4		9.8									2.2

1897.

1	2.2	3.0	6.2									
2	2.0	4.9	5.3									
3	2.0	6.5	5.0									
4	2.0	6.9	6.2									
5	2.0	6.4	6.7									
6	2.2	5.5	7.6									
7	2.2	8.4	15.0									
8	2.0	9.6	14.8									
9	1.9	11.0	12.8									
10	1.9	10.8	12.0									
11	1.8	7.5	19.0									
12	1.7	6.5	24.0									
13	1.7	7.0	26.4									
14	2.3	8.2	20.0									
15	4.5	7.7	22.0									
16	4.9	7.0	21.8									
17	4.3	6.4	18.7									
18	4.3	5.7	14.8									
19	5.0	5.3	13.8									
20	5.0	4.8	19.8									
21	5.9	6.2	21.5									
22	6.1	9.7	17.8									
23	5.8	16.0	14.8									
24	5.2	25.0	10.4									
25	4.7	27.5	9.0									
26	4.3	22.4	8.0									
27	4.0	12.0	7.4									
28	3.8	8.0	6.9									
29	3.6		6.4									
30	3.2		6.0									
31	3.0		5.0									

DAILY RIVER STAGES.

*Ohio River system (Tennessee River branch)—Tennessee River, Chattanooga, Tenn.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.9	4.4	4.1	14.8	3.4	2.6	3.3	5.5	2.4	2.5	1.2	11.2
2	5.0	6.2	3.9	27.7	3.4	3.0	3.2	5.2	2.1	2.3	1.2	13.6
3	4.9	10.0	3.8	34.4	3.4	4.4	3.1	4.8	1.9	2.6	1.3	13.9
4	4.9	11.6	3.7	38.8	3.5	5.7	3.2	4.6	1.8	3.0	1.5	11.1
5	4.7	10.5	3.6	40.5	4.0	5.2	3.2	4.5	1.6	2.7	1.5	8.2
6	4.3	9.3	3.5	36.9	4.6	4.7	3.2	4.9	1.6	2.6	1.6	6.5
7	3.6	11.8	3.4	23.3	4.3	4.1	3.6	5.0	1.5	2.1	2.3	5.6
8	3.3	14.0	3.5	11.6	4.3	3.5	5.0	4.2	2.0	1.7	3.5	4.9
9	3.2	13.8	3.5	9.0	4.0	3.5	7.9	3.8	2.8	1.5	4.2	4.6
10	3.2	13.2	3.4	8.0	3.7	4.5	14.2	3.4	2.7	1.4	4.1	4.4
11	3.1	12.8	3.6	7.2	3.4	7.0	21.1	3.3	2.4	1.2	3.3	4.5
12	3.1	11.4	3.6	6.7	3.1	6.3	21.6	3.4	2.0	1.2	3.2	4.7
13	2.9	10.1	3.8	6.2	2.9	5.1	15.6	3.2	1.8	1.2	5.8	4.4
14	2.7	11.1	3.8	5.8	2.8	4.3	11.5	3.2	1.6	1.2	7.3	4.5
15	2.6	12.8	3.7	5.5	2.7	3.6	11.2	3.1	1.6	1.5	6.5	4.4
16	2.4	13.6	3.8	5.2	2.6	3.2	11.4	3.0	1.5	1.7	5.5	4.1
17	2.3	12.5	5.5	5.0	2.5	3.0	11.0	3.0	1.3	1.6	4.9	3.9
18	2.3	11.0	10.1	4.8	2.4	2.8	13.9	2.9	1.4	1.6	4.3	3.8
19	2.3	9.0	13.1	4.6	2.4	2.9	12.5	2.7	1.4	1.7	3.8	4.2
20	2.3	7.6	15.7	4.4	2.2	3.1	9.6	2.6	1.3	1.6	3.4	4.8
21	2.3	6.7	13.8	4.2	2.1	3.7	7.6	2.4	1.2	1.6	3.0	4.6
22	2.5	6.0	11.2	4.1	2.1	3.5	6.5	2.4	1.2	1.4	2.8	4.3
23	3.1	5.4	9.5	4.1	2.5	3.5	8.5	2.2	1.3	1.2	2.5	4.0
24	5.0	4.9	8.4	4.0	3.2	3.3	8.5	2.2	1.4	1.2	2.4	3.8
25	6.5	4.7	7.9	4.0	3.6	3.1	8.6	2.8	1.6	1.2	2.3	3.6
26	8.2	4.6	7.5	3.8	3.8	2.9	7.8	2.6	2.0	1.2	2.2	3.3
27	8.0	4.5	7.2	3.7	3.2	2.6	11.1	2.7	1.7	1.2	2.1	3.1
28	7.0	4.4	6.7	3.8	3.1	2.6	12.2	3.2	1.5	1.2	2.2	2.9
29	6.0	4.2	6.2	3.8	2.8	2.8	9.3	4.0	1.5	1.1	5.3	2.7
30	5.3	-----	5.8	3.6	2.7	3.0	7.2	3.6	2.7	1.1	9.4	2.6
31	4.8	-----	7.7	-----	2.5	-----	6.2	2.8	-----	1.3	-----	2.5

1897.

1	2.4	3.0	12.5	8.7	5.9	4.3	5.0	4.4	2.1	0.8	0.8	1.0
2	2.5	7.0	9.6	12.2	6.3	4.2	4.6	3.9	2.2	0.8	0.9	1.2
3	2.5	10.1	8.6	15.0	7.4	4.2	3.8	3.8	1.9	0.7	1.0	1.3
4	2.6	10.5	9.0	16.0	9.6	4.1	3.4	3.6	1.8	0.6	1.2	2.0
5	2.6	9.4	9.5	26.0	9.6	4.1	3.4	3.3	1.8	0.5	1.2	3.3
6	2.7	8.3	12.1	30.4	8.5	4.1	4.0	3.4	1.7	0.5	1.3	3.8
7	2.9	8.8	19.2	29.7	7.7	4.1	3.8	4.1	1.7	0.5	1.2	3.9
8	3.0	10.7	25.1	25.4	7.2	4.4	3.8	4.2	1.6	0.4	1.4	3.5
9	2.8	14.1	24.2	20.0	6.6	4.4	4.4	4.2	1.6	0.4	1.2	2.9
10	2.8	15.5	21.3	16.0	6.2	4.0	4.0	5.6	1.4	0.4	1.2	2.6
11	2.7	13.2	22.3	14.1	6.0	5.2	4.1	5.2	1.3	0.5	1.1	2.4
12	2.6	10.8	28.4	12.6	6.2	6.0	4.5	4.6	1.2	0.6	1.1	2.1
13	2.4	9.9	34.9	11.4	7.8	5.0	4.6	4.1	1.2	0.9	1.0	1.8
14	2.6	10.0	37.9	10.3	18.4	4.3	4.2	3.5	1.1	1.4	0.9	1.8
15	4.1	10.5	37.9	9.7	22.4	3.9	3.8	3.1	1.0	1.1	0.8	2.5
16	6.5	10.7	37.0	9.8	20.3	3.6	3.6	2.8	1.0	1.2	0.8	2.7
17	6.6	9.8	36.0	10.2	16.5	3.7	4.5	2.8	0.9	1.2	0.7	2.5
18	6.3	8.6	33.8	9.8	11.9	3.6	6.3	3.0	0.9	1.2	0.8	2.5
19	6.4	7.6	29.6	9.3	9.1	3.3	6.1	3.4	0.8	1.1	0.8	2.6
20	6.8	7.0	29.6	8.8	7.7	3.3	5.6	3.0	0.8	1.4	0.8	3.4
21	7.0	7.0	32.4	8.1	6.9	4.1	6.7	3.0	0.9	2.0	0.7	4.5
22	7.2	8.3	33.3	7.5	6.4	5.0	6.1	3.4	0.9	1.9	0.7	7.1
23	7.3	13.2	30.9	7.0	5.9	4.8	5.8	3.1	0.8	1.6	0.7	10.2
24	7.0	25.2	25.0	6.7	5.6	5.3	6.0	3.8	0.9	1.4	0.7	9.3
25	6.6	31.6	18.1	6.4	5.3	5.5	8.4	3.4	0.8	1.6	0.7	7.7
26	5.9	34.8	14.2	6.2	5.1	6.2	8.7	2.9	0.8	1.5	0.7	6.4
27	5.3	33.8	12.2	6.0	4.8	5.4	13.3	2.8	0.7	1.3	0.7	5.6
28	4.8	23.6	10.8	6.1	4.6	5.5	8.7	2.8	0.7	1.1	0.7	5.0
29	4.4	-----	9.8	6.2	4.4	6.2	6.7	2.5	0.7	1.0	0.7	4.5
30	3.7	-----	9.1	5.8	4.2	5.2	5.6	2.2	0.7	0.8	0.9	4.0
31	3.0	-----	8.6	-----	4.2	-----	5.0	2.1	-----	0.8	-----	3.8

DAILY RIVER STAGES.

347

Ohio River system (Tennessee River branch)—Tennessee River, Chattanooga, Tenn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.5	7.9	3.3	17.0	6.5	3.4	2.5	8.2	3.6	3.6	4.7	5.1
2	3.3	7.0	3.2	18.0	5.9	3.3	2.4	7.8	3.7	3.4	4.3	5.1
3	3.0	6.3	3.0	15.8	5.5	3.3	2.3	6.7	7.9	3.2	4.3	4.9
4	2.9	5.5	2.9	12.1	5.1	3.3	2.1	5.5	16.4	3.4	4.1	5.0
5	2.8	5.1	3.2	9.9	4.8	2.9	2.2	5.3	24.6	7.5	3.9	4.9
6	2.6	4.6	3.4	11.9	4.5	2.6	2.2	10.4	23.5	15.6	3.9	5.4
7	2.7	4.5	3.5	11.8	4.3	2.4	2.2	14.8	17.0	17.6	4.2	6.0
8	2.8	4.4	3.4	10.6	4.1	2.2	2.0	13.1	11.8	12.5	4.4	5.8
9	3.0	4.3	3.3	9.5	4.2	2.1	2.6	10.7	9.8	8.8	4.5	5.9
10	3.3	4.2	3.1	8.4	4.2	2.0	2.9	8.7	8.8	8.5	4.4	5.7
11	3.2	4.0	2.9	8.5	4.3	1.8	3.5	8.5	7.7	7.8	4.6	5.2
12	4.0	3.9	2.9	9.4	4.7	1.7	3.4	11.5	6.6	6.8	4.9	4.8
13	12.0	3.8	2.8	9.5	4.5	1.8	3.3	14.5	5.8	6.1	5.4	4.6
14	14.8	3.8	2.8	9.0	4.2	1.8	2.8	15.8	5.3	5.7	5.1	4.4
15	12.6	3.8	3.0	9.0	4.0	1.6	2.8	15.5	4.9	5.5	4.6	4.0
16	11.9	3.7	4.9	9.1	3.9	1.7	3.4	12.4	4.5	5.0	4.4	3.9
17	12.4	3.6	5.1	8.7	3.8	2.0	4.5	9.5	4.3	4.6	4.5	3.8
18	10.3	3.5	5.2	8.3	3.7	2.1	5.6	7.4	4.0	5.0	4.7	3.6
19	9.2	3.3	5.4	8.0	3.7	3.3	4.7	6.5	3.8	6.5	4.9	3.7
20	10.6	3.3	6.1	7.9	3.7	3.9	4.2	6.0	3.6	7.4	5.1	5.0
21	13.6	3.2	5.8	7.5	3.6	4.9	4.1	6.0	3.5	9.3	5.8	5.8
22	13.8	3.2	5.5	7.1	3.6	5.6	3.4	5.7	3.5	9.0	5.9	6.0
23	12.6	3.4	5.2	6.9	3.6	5.3	3.2	5.6	5.0	7.9	6.4	6.0
24	12.5	3.5	4.7	6.7	3.4	4.3	3.4	4.9	5.1	7.3	6.9	5.4
25	12.1	3.5	4.3	6.8	3.4	4.3	3.5	4.4	5.9	7.2	6.7	5.2
26	15.2	3.8	4.2	6.5	4.5	3.5	3.5	4.1	7.4	7.6	6.2	5.2
27	18.2	3.6	4.4	6.5	4.6	3.0	4.3	4.0	6.4	7.0	5.8	5.9
28	17.2	3.4	4.5	7.0	5.7	2.8	5.5	4.0	5.2	6.4	5.3	5.9
29	14.8	-----	4.6	7.1	5.1	2.8	5.4	4.3	4.4	5.8	4.8	5.3
30	11.8	-----	5.3	6.8	4.3	2.6	5.5	4.1	3.9	5.2	4.9	4.9
31	9.3	-----	11.8	-----	3.8	-----	7.7	3.9	-----	4.9	-----	4.5

1899.

1	4.7	5.6	19.5	23.1	7.7	4.2	3.4	4.4	2.1	1.2	1.1	1.7
2	4.9	5.7	18.2	20.6	7.2	4.2	3.4	3.7	2.3	1.1	1.1	1.7
3	5.1	5.4	15.8	15.6	6.8	4.4	3.1	3.1	2.6	1.1	1.1	1.7
4	5.8	8.7	13.9	13.1	6.4	4.8	2.8	2.8	3.1	1.0	1.0	1.7
5	5.8	20.5	15.5	12.9	6.1	4.8	2.6	2.5	2.8	0.9	1.5	1.8
6	6.5	29.5	24.0	14.5	6.8	4.3	2.6	2.5	2.3	0.8	1.5	1.7
7	8.8	33.6	26.3	15.2	8.2	4.1	2.6	2.4	2.0	0.8	1.5	1.6
8	18.8	36.5	27.6	17.8	8.9	3.8	3.0	2.4	1.8	1.0	1.5	1.5
9	18.8	38.2	27.4	18.1	10.0	3.6	3.0	2.3	1.6	1.0	1.4	1.4
10	17.7	37.5	17.6	16.1	10.5	3.4	2.6	2.1	1.8	1.6	1.2	1.4
11	14.8	32.4	12.0	14.5	11.2	3.9	2.6	2.1	1.7	1.7	1.2	1.4
12	11.0	21.7	11.0	13.2	10.6	4.1	2.5	2.0	2.0	1.9	1.1	4.6
13	9.4	13.2	9.6	11.9	9.7	5.1	2.3	2.0	1.8	1.7	1.0	6.3
14	8.3	Frozen.	9.4	10.9	9.3	5.6	2.2	2.2	2.0	1.7	1.0	7.6
15	7.6	8.8	20.3	10.1	9.6	6.4	2.2	2.6	1.9	1.4	1.0	7.3
16	7.3	7.6	33.3	9.5	9.3	6.2	2.0	2.7	1.7	1.3	1.0	6.4
17	7.4	7.5	36.7	8.9	8.9	6.2	1.9	2.5	1.5	1.2	1.0	5.4
18	7.5	9.3	36.5	8.5	8.0	6.5	1.8	2.3	1.4	1.2	1.0	4.4
19	7.3	10.8	35.8	8.1	7.0	5.4	1.9	2.2	1.2	1.1	1.0	3.9
20	7.0	12.6	36.5	7.6	6.5	4.8	2.0	1.9	1.1	1.1	1.0	4.2
21	6.9	11.8	38.9	7.4	6.0	4.3	2.0	1.7	1.0	1.1	0.9	4.3
22	6.6	10.8	40.0	7.1	5.7	3.8	2.2	1.6	1.0	1.1	0.8	4.5
23	6.1	10.2	39.4	7.2	5.4	3.6	2.6	1.5	1.2	1.1	1.0	4.0
24	5.6	9.8	34.5	9.9	5.3	3.3	3.3	1.3	1.5	1.0	1.1	5.5
25	6.0	9.6	25.1	9.3	5.1	3.2	3.5	1.2	1.5	1.0	1.4	6.0
26	6.4	9.2	17.2	10.6	4.8	3.0	3.1	1.2	1.5	0.9	1.7	6.5
27	5.9	12.0	14.0	10.6	4.7	3.2	2.9	1.2	1.3	0.8	1.8	5.9
28	5.8	17.8	13.4	9.4	4.5	3.6	3.5	1.2	1.2	0.8	1.9	5.6
29	5.6	-----	16.3	8.5	4.3	3.6	4.3	1.4	1.2	0.9	1.8	5.2
30	5.4	-----	20.7	7.8	4.2	3.3	4.2	1.9	1.3	1.0	1.8	4.9
31	5.2	-----	22.6	-----	4.3	-----	5.2	1.7	-----	1.0	-----	4.2

138.3 at 9 a. m.

DAILY RIVER STAGES.

*Ohio River system (Tennessee River branch)—Tennessee River, Bridgeport, Ala.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1									1.3	1.3	0.3	8.4
2									1.0	1.0	0.2	10.0
3									0.8	1.0	0.2	10.9
4									0.7	1.4	0.3	9.9
5									0.6	1.3	0.3	7.4
6									0.5	1.2	0.3	5.3
7									0.5	1.0	0.6	4.2
8									0.5	0.8	1.4	3.4
9									1.0	0.5	2.1	3.0
10									1.3	0.4	2.5	2.7
11									1.2	0.3	2.0	2.7
12									1.0	0.3	1.8	2.9
13								1.7	0.7	0.3	2.9	2.9
14								1.6	0.6	0.2	5.0	2.8
15								1.6	0.5	0.3	5.0	2.8
16								1.6	0.5	0.5	4.1	2.4
17								1.5	0.4	0.6	3.4	2.3
18								1.4	0.4	0.5	2.8	2.2
19								1.4	0.4	0.5	2.3	2.2
20								1.2	0.4	0.5	1.9	2.7
21								1.1	0.3	0.5	1.6	3.0
22								1.1	0.3	0.5	1.4	2.8
23								1.0	0.4	0.4	1.2	2.5
24								1.0	0.3	0.3	1.1	2.2
25								1.2	0.4	0.3	1.0	2.0
26								1.3	0.5	0.2	0.9	1.8
27								1.2	0.6	0.2	0.9	1.6
28								1.2	0.5	0.2	0.9	1.5
29								1.9	0.5	0.2	2.4	1.4
30								2.2	0.5	0.2	6.1	1.3
31								1.6		0.2		1.2

1897.

1	1.1	1.5	16.3	6.8	4.0	2.6	3.3	3.0	0.8	0.0	0.1	0.0
2	1.1	3.2	9.8	8.6	4.2	2.6	2.9	2.4	0.8	0.0	0.0	0.1
3	1.1	7.2	7.3	11.7	4.7	2.5	2.9	2.1	0.8	0.0	0.1	0.4
4	1.1	8.6	7.0	12.9	6.4	2.5	2.0	2.0	0.7	-0.1	0.2	0.8
5	1.3	8.0	7.5	16.7	7.5	2.5	1.7	1.9	0.6	-0.1	0.2	1.5
6	1.3	7.1	9.4	21.5	6.9	2.4	2.0	1.7	0.6	-0.1	0.3	2.2
7	1.4	7.2	13.8	22.8	6.0	2.4	2.3	1.8	0.6	-0.1	0.3	2.2
8	1.6	8.0	17.9	21.9	5.5	2.5	2.0	2.5	0.5	-0.1	0.3	2.1
9	1.5	10.2	19.1	19.3	5.0	2.7	2.4	2.3	0.5	-0.2	0.4	1.7
10	1.4	12.0	18.2	15.6	4.5	2.5	2.5	3.5	0.4	-0.2	0.3	1.4
11	1.4	11.5	17.7	12.9	4.3	2.5	2.3	3.5	0.3	-0.2	0.2	1.2
12	1.3	9.5	20.5	10.8	4.5	3.9	2.5	3.2	0.3	-0.2	0.2	1.0
13	1.2	8.2	23.9	9.8	6.0	3.7	3.0	2.6	0.2	-0.1	0.2	0.9
14	1.2	7.8	25.9	8.7	12.1	2.9	2.7	2.2	0.2	0.1	0.2	0.7
15	1.8	8.2	26.9	8.0	16.7	2.3	2.3	1.8	0.2	0.3	0.1	0.7
16	4.0	8.3	27.2	7.9	17.1	2.0	2.0	1.5	0.1	0.2	0.1	1.3
17	4.9	8.1	27.0	8.0	14.9	2.0	2.3	1.3	0.1	0.2	0.0	1.3
18	5.0	7.1	26.4	8.1	11.7	2.0	3.4	1.4	0.1	0.2	0.0	1.2
19	4.9	6.1	25.3	7.5	9.4	1.8	4.5	1.5	0.1	0.3	0.0	1.2
20	5.1	5.4	24.4	7.1	6.5	1.7	4.0	1.7	0.1	0.3	0.0	1.7
21	5.5	5.2	24.4	6.5	5.5	1.8	4.4	1.4	0.1	0.5	0.0	2.8
22	5.6	5.7	24.9	5.9	4.8	2.9	4.5	1.6	0.1	0.8	0.0	4.7
23	5.6	8.9	24.6	5.4	4.4	3.0	4.1	1.8	0.1	0.6	0.0	7.7
24	5.4	15.9	23.0	5.0	4.0	3.2	4.0	1.9	0.0	0.5	0.0	8.2
25	5.1	20.5	19.2	4.7	3.7	3.4	4.9	2.0	0.0	0.5	-0.1	6.7
26	4.5	23.3	14.5	4.4	3.4	4.0	6.6	1.7	0.0	0.5	-0.1	5.3
27	3.9	24.3	11.2	4.3	3.2	3.9	9.9	1.4	0.0	0.5	-0.1	4.4
28	3.4	22.7	9.2	4.2	3.0	3.3	8.5	1.4	0.0	0.4	0.0	3.7
29	2.9		8.2	4.3	2.8	4.7	5.8	1.3	0.0	0.4	0.0	3.0
30	2.4		7.5	4.3	2.6	4.0	4.3	1.0	0.0	0.3	0.0	2.5
31	1.9		7.0		2.5		3.6	0.9		0.2		2.2

DAILY RIVER STAGES.

349

Ohio River system (Tennessee River branch)—Tennessee River, Bridgeport, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.1	6.8	1.8	11.6	5.0	2.0	1.1	5.9	2.0	2.0	3.0	3.1
2	1.9	5.6	1.7	13.7	4.6	1.8	1.0	6.0	1.9	1.8	2.7	3.2
3	1.7	4.9	1.6	13.3	4.0	1.7	1.0	5.3	3.3	1.7	2.5	3.2
4	1.6	4.2	1.5	11.1	3.6	1.6	0.9	4.3	9.4	1.7	2.4	3.1
5	1.4	3.5	1.5	8.9	3.3	1.5	0.8	3.4	15.7	2.0	2.2	3.3
6	1.3	3.1	1.7	9.3	3.0	1.3	1.1	4.1	18.2	8.9	2.2	3.7
7	1.3	2.9	1.8	9.9	2.7	1.2	0.8	10.1	15.9	13.5	2.3	4.3
8	1.3	2.7	1.9	9.2	2.5	1.0	0.8	11.0	11.5	11.8	2.4	4.4
9	1.4	2.6	1.8	8.1	2.5	0.9	1.0	9.3	8.4	8.5	2.6	4.2
10	1.6	2.6	1.6	7.0	2.5	0.8	1.2	7.4	7.0	7.3	2.8	3.9
11	1.7	2.5	1.5	6.6	2.4	0.7	1.5	6.4	6.2	6.1	2.7	3.5
12	2.0	2.3	1.4	7.5	2.8	0.6	1.9	7.6	5.9	5.3	2.8	3.2
13	6.1	2.3	1.4	7.8	2.9	0.9	1.7	10.3	4.1	4.5	3.5	2.9
14	11.5	2.2	1.4	7.5	2.6	0.8	1.5	11.9	3.4	4.0	3.4	2.6
15	11.1	2.2	1.5	7.2	2.5	0.6	1.4	12.2	3.2	3.7	2.9	2.4
16	10.0	2.2	2.4	7.3	2.2	0.6	1.4	11.1	2.9	3.3	2.7	2.2
17	10.4	2.1	3.8	7.2	2.2	0.7	1.9	8.5	2.6	3.0	2.6	2.1
18	9.3	2.0	3.8	6.7	2.7	0.8	3.5	6.0	2.4	2.9	2.6	2.0
19	7.9	1.9	3.7	6.4	2.1	1.1	3.2	4.9	2.2	3.8	2.7	1.9
20	8.4	1.8	4.1	6.8	2.0	1.9	2.6	4.2	2.0	4.8	3.2	2.8
21	10.6	1.8	4.4	6.4	2.0	2.4	2.3	4.0	2.0	6.1	4.0	4.0
22	11.9	1.8	4.0	5.8	2.0	3.8	2.1	3.9	1.8	7.2	4.2	4.2
23	11.0	1.8	3.7	5.0	1.9	4.6	1.7	3.6	2.3	6.5	4.6	4.1
24	10.7	1.8	3.3	5.0	1.8	3.9	1.7	3.3	3.3	5.5	5.1	3.9
25	10.4	1.9	2.9	5.3	1.8	3.0	1.8	2.8	3.4	5.4	5.0	3.6
26	12.3	2.1	2.6	5.1	1.9	2.2	1.9	2.4	4.8	5.7	4.0	3.6
27	14.6	2.1	2.5	5.0	2.2	1.7	2.0	2.2	4.9	5.4	3.9	4.0
28	14.8	1.9	2.7	5.2	2.3	1.4	3.1	2.2	4.0	4.7	3.6	3.8
29	13.3	-----	2.8	5.6	3.6	1.3	3.8	2.3	3.0	4.2	3.2	3.6
30	10.9	-----	3.1	5.3	3.0	1.3	3.5	2.4	2.4	3.6	3.2	3.2
31	8.6	-----	6.0	-----	2.4	-----	4.3	2.3	-----	3.3	-----	2.9

1899.

1	2.7	3.9	16.0	17.5	6.0	2.5	1.6	3.2	0.8	0.3	0.1	0.6
2	2.7	4.1	15.0	17.0	5.6	2.3	1.7	2.3	1.0	0.3	0.2	0.6
3	3.2	4.0	13.5	14.4	5.1	2.5	1.6	1.7	1.1	0.2	0.2	0.5
4	3.6	7.0	11.7	11.6	4.7	2.7	1.4	1.5	1.3	0.2	0.2	0.5
5	4.0	13.2	12.5	10.0	4.4	3.0	1.2	1.2	1.5	0.1	0.3	0.5
6	5.0	20.0	16.0	11.0	4.4	2.7	1.1	1.0	1.2	0.1	0.4	0.5
7	8.7	23.5	18.5	12.0	4.5	2.5	1.1	1.0	0.9	0.1	0.5	0.4
8	14.5	25.0	19.9	13.7	6.5	2.2	1.2	1.0	0.7	0.2	0.4	0.4
9	15.0	26.3	20.0	14.8	7.6	2.0	1.2	1.0	0.6	0.2	0.4	0.4
10	13.5	26.7	17.0	14.0	7.8	1.8	1.3	0.9	0.5	0.3	0.4	0.4
11	12.7	26.0	12.3	12.5	8.5	1.9	1.2	0.8	0.4	0.5	0.3	0.4
12	10.0	23.0	9.5	11.5	8.5	2.3	1.1	0.8	0.6	0.5	0.3	3.0
13	7.5	16.3	8.2	10.1	8.0	2.7	1.0	0.9	0.5	0.6	0.2	5.7
14	6.6	11.0	8.5	9.5	7.3	3.5	1.0	0.7	0.7	0.5	0.1	5.6
15	6.6	7.9	17.0	8.4	7.3	4.1	0.9	1.0	0.7	0.4	0.1	6.0
16	5.7	6.3	23.5	7.7	7.3	4.5	0.1	1.3	0.7	0.3	0.1	5.3
17	5.6	6.0	25.5	7.2	7.0	4.1	0.2	1.3	0.4	0.2	0.1	3.9
18	5.6	7.0	26.5	6.7	6.5	4.5	0.3	1.2	0.4	0.1	0.1	3.5
19	5.7	8.0	27.5	6.3	5.5	4.0	0.3	1.0	0.3	0.1	0.1	3.0
20	5.5	9.0	27.2	6.0	4.9	3.3	0.3	1.0	0.3	0.2	0.1	3.1
21	5.1	10.0	27.5	5.6	4.4	2.7	0.2	0.8	0.2	0.2	0.1	3.3
22	4.7	9.1	27.9	5.3	4.0	2.3	0.2	0.6	0.2	0.2	0.1	3.2
23	4.4	8.5	28.0	5.3	3.7	2.1	1.1	0.6	0.1	0.2	0.1	3.0
24	4.1	8.1	27.2	8.3	3.5	1.8	1.3	0.5	0.1	0.2	0.1	4.0
25	4.7	7.7	25.5	8.5	3.3	1.6	1.9	0.4	0.4	0.2	0.3	5.1
26	5.0	7.6	19.7	8.6	3.1	1.5	1.7	0.3	0.5	0.1	0.5	5.1
27	5.2	10.2	14.5	9.1	2.9	1.4	1.5	0.3	0.4	0.1	0.7	4.7
28	4.7	13.5	11.7	8.0	2.7	1.6	1.6	0.3	0.3	0.1	0.7	4.3
29	4.2	-----	12.0	7.1	2.6	2.0	2.1	0.6	0.3	0.1	0.7	3.9
30	3.9	-----	14.5	6.3	2.5	1.8	2.5	0.5	0.2	0.1	0.6	3.3
31	3.6	-----	16.6	-----	2.5	-----	2.5	0.2	-----	0.1	-----	3.7

DAILY RIVER STAGES.

*Ohio River system (Tennessee River branch)—Tennessee River, Upper Muscle Shoals, Ala.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1									1.6	1.0	0.8	3.4
2									1.6	0.9	0.7	4.6
3									1.4	0.6	0.7	4.9
4									1.2	1.2	0.7	5.5
5									1.1	0.9	0.7	5.6
6									1.1	0.9	0.8	4.6
7									1.0	1.3	0.8	4.1
8									0.9	1.3	0.9	3.0
9									0.9	1.2	0.9	2.8
10									0.8	1.1	0.8	2.6
11									1.0	0.9	1.6	2.4
12									1.1	0.9	1.9	2.3
13									1.3	0.8	1.8	2.1
14									1.3	0.8	2.0	2.1
15									1.0	0.7	2.5	2.2
16									1.0	0.7	3.6	2.2
17									0.9	0.7	2.9	2.3
18									0.9	0.7	2.9	2.4
19									0.8	0.8	2.3	2.4
20									0.8	0.9	2.1	1.9
21									0.8	0.9	1.9	2.0
22									0.8	0.9	1.7	2.2
23									0.5	1.0	1.5	2.2
24									0.7	1.0	1.5	2.1
25									0.7	0.9	1.4	2.0
26									0.7	0.8	1.1	2.1
27									0.6	0.8	1.0	1.9
28									0.7	0.7	1.1	1.6
29									0.8	0.7	3.8	1.6
30									0.8	0.7	3.2	1.6
31										0.8		1.5

1897.

1	1.4	2.0	8.0	4.7	3.0	2.2	2.7	3.0	1.3	0.5	0.4	0.3
2	1.4	2.0	7.4	4.5	3.0	2.1	2.5	2.7	1.1	0.5	0.4	0.3
3	1.3	2.2	7.0	4.9	2.9	2.0	2.5	2.0	1.1	0.5	0.4	0.6
4	1.3	2.4	6.2	6.0	2.9	2.1	2.2	2.0	1.1	0.5	0.4	0.8
5	1.3	4.4	4.9	6.9	3.4	2.1	2.1	1.8	1.1	0.5	0.4	1.1
6	1.4	4.6	4.0	7.2	3.9	2.1	2.0	1.8	0.7	0.5	0.4	2.4
7	1.6	4.6	6.0	7.8	4.8	2.1	1.9	1.8	0.9	0.5	0.5	1.9
8	1.6	4.6	6.8	8.0	3.8	2.1	1.9	1.8	0.9	0.5	0.5	1.9
9	1.6	4.8	7.2	8.2	3.6	2.0	2.0	1.8	0.9	0.5	0.5	1.9
10	1.8	5.2	7.8	8.2	3.3	2.0	2.1	2.0	0.9	0.4	0.6	1.8
11	1.8	5.6	8.2	8.1	3.6	2.2	2.2	2.1	0.8	0.3	0.6	1.7
12	1.6	5.7	8.5	7.6	3.0	2.0	2.3	2.3	0.8	0.4	0.6	1.4
13	1.6	5.6	9.0	6.0	3.5	2.3	2.3	2.3	0.7	0.2	0.7	1.6
14	1.6	4.9	9.7	5.2	4.5	2.5	2.2	2.1	0.7	0.2	0.4	1.6
15	1.7	4.4	10.0	4.9	6.9	2.4	2.4	2.1	0.7	0.2	0.5	1.4
16	2.0	4.3	10.3	4.7	7.5	2.2	2.3	1.9	0.6	0.2	0.5	1.2
17	3.1	4.2	10.7	4.5	7.6	2.0	2.0	1.8	0.6	0.3	0.4	1.2
18	3.1	4.2	11.4	4.4	7.5	1.9	2.0	1.5	0.6	0.3	0.4	1.3
19	3.6	4.0	12.0	4.3	6.5	1.8	2.2	1.2	0.6	0.4	0.4	1.4
20	3.6	3.8	12.8	4.3	5.5	1.7	2.8	1.1	0.6	0.4	0.4	1.4
21	3.5	3.5	12.6	4.2	4.4	1.7	2.8	1.1	0.5	0.5	0.4	1.9
22	3.8	3.4	12.4	4.0	3.7	1.4	2.9	1.1	0.5	0.5	0.4	2.6
23	3.8	3.6	11.9	3.7	3.4	1.8	2.9	1.2	0.5	0.5	0.4	3.5
24	3.8	4.6	11.2	3.0	3.0	2.0	2.8	1.2	0.5	0.7	0.3	4.3
25	3.1	6.2	10.5	2.4	3.0	2.2	2.8	1.1	0.5	0.7	0.3	4.6
26	3.2	6.8	10.3	3.2	2.9	2.4	2.8	1.2	0.5	0.6	0.3	4.2
27	3.0	7.8	9.8	3.0	2.8	2.5	3.0	1.8	0.5	0.6	0.3	3.8
28	2.9	8.2	8.9	2.9	2.6	2.6	4.2	1.7	0.5	0.6	0.3	3.5
29	3.6		7.1	2.9	2.5	2.5	4.4	1.6	0.5	0.5	0.3	2.7
30	2.4		5.8	2.9	2.4	2.5	3.8	1.5	0.5	0.5	0.3	2.5
31	2.0		4.9		2.3		3.0	1.4		0.5		2.2

DAILY RIVER STAGES.

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Ohio River system (Tennessee River branch)—Tennessee River, Upper Muscle Shoals, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.1	5.0	1.8	3.4	3.4	2.5	1.2	2.5	1.7	2.0	2.3	2.4
2	2.0	4.4	1.9	5.0	3.2	1.7	1.0	3.0	1.5	2.0	2.0	2.3
3	1.9	3.4	1.7	5.1	3.1	1.5	1.0	3.3	1.6	1.8	1.9	2.1
4	1.9	3.3	1.6	5.8	2.9	1.4	1.0	3.3	1.6	1.7	1.9	2.1
5	1.8	3.0	1.6	5.8	2.8	1.4	1.0	3.0	3.5	1.6	1.8	2.1
6	1.5	2.7	1.5	5.8	2.6	1.4	1.0	2.5	5.7	1.3	1.8	2.2
7	1.5	2.4	1.6	5.8	2.4	1.3	1.0	2.1	6.5	2.0	1.8	2.5
8	1.4	2.3	1.5	5.5	2.1	1.3	1.0	4.4	6.7	4.8	1.7	2.6
9	1.4	2.3	1.7	5.1	2.1	1.1	1.0	4.6	6.0	6.0	1.7	2.7
10	1.4	2.2	1.7	4.7	2.0	1.1	1.0	4.7	5.0	4.8	1.7	2.8
11	1.4	2.1	1.7	4.2	2.0	1.0	1.0	4.5	4.0	4.0	1.9	2.8
12	1.6	2.0	1.5	3.9	1.9	0.9	1.2	3.9	3.5	3.8	1.9	2.6
13	1.9	2.0	1.5	3.8	1.9	0.9	1.3	3.9	3.2	3.2	2.0	2.4
14	4.7	1.9	1.5	4.1	2.1	0.9	1.5	4.3	2.4	2.9	2.1	2.3
15	5.0	1.9	1.6	4.2	2.1	1.0	1.5	5.3	2.0	2.7	2.3	2.3
16	5.6	1.8	2.0	4.1	2.0	1.0	1.4	6.5	2.0	2.1	2.2	2.1
17	6.1	1.8	2.6	4.1	1.9	0.9	1.2	5.3	1.9	2.1	2.2	1.9
18	5.1	1.7	2.9	4.0	1.8	0.9	1.1	5.3	1.9	2.0	2.0	1.8
19	5.0	1.7	3.0	3.9	1.7	0.9	1.5	3.8	1.7	2.0	2.0	1.8
20	4.9	1.7	2.8	4.5	1.7	0.9	2.1	3.2	1.6	2.0	2.0	1.7
21	5.1	1.6	2.8	4.8	1.6	1.1	2.1	2.8	1.5	2.3	2.1	2.4
22	5.5	1.7	2.9	4.5	1.5	1.5	1.9	2.8	1.5	3.1	2.2	2.9
23	5.9	1.6	2.8	4.1	1.5	2.0	1.7	2.5	1.4	3.7	2.6	3.2
24	5.9	1.6	2.7	5.4	1.5	2.5	1.5	2.4	1.5	3.7	3.0	3.1
25	5.7	1.9	2.6	3.8	1.5	2.5	1.4	2.3	1.9	3.4	3.1	2.8
26	6.1	1.6	2.6	3.8	1.5	2.3	1.2	2.2	2.1	3.1	3.1	2.6
27	6.3	1.7	2.2	3.7	1.5	2.0	1.7	2.0	2.3	3.2	3.3	2.6
28	6.0	1.6	2.1	3.5	1.5	1.7	1.7	1.7	2.8	3.2	2.9	2.5
29	6.1	-----	2.2	3.4	1.8	1.5	2.0	1.7	2.7	3.0	2.9	2.4
30	5.1	-----	2.5	3.4	2.2	1.3	3.0	1.5	2.3	2.8	2.5	2.4
31	5.1	-----	2.8	-----	2.4	-----	2.3	1.5	-----	2.5	-----	2.4

1899.

1	2.3	3.0	6.3	6.4	4.0	2.1	1.6	2.2	1.0	0.8	0.8	1.2
2	2.2	3.2	6.5	7.6	3.8	2.1	1.7	2.3	1.1	0.8	0.8	1.2
3	2.1	3.3	6.6	6.8	3.6	2.1	1.6	2.3	1.2	0.9	0.8	1.2
4	2.1	4.0	6.4	6.6	3.5	2.0	1.6	2.0	1.2	0.9	0.8	1.1
5	2.1	7.0	6.0	6.2	3.4	2.0	1.5	1.6	1.3	0.8	0.8	1.1
6	2.5	7.8	5.8	6.0	3.1	2.1	1.4	1.4	1.4	0.8	0.8	1.1
7	3.9	8.3	5.8	5.9	3.0	2.2	1.3	1.2	1.5	0.8	0.8	1.1
8	5.4	8.6	6.6	6.3	3.1	2.1	1.2	1.2	1.4	0.8	0.9	1.1
9	6.3	8.8	6.7	6.8	3.6	2.0	1.1	1.1	1.3	0.8	1.0	1.0
10	6.5	8.9	7.1	7.1	4.0	1.9	1.1	1.1	1.2	0.8	1.0	1.0
11	6.4	8.9	7.2	7.1	4.3	1.8	1.3	1.0	1.1	0.8	1.0	1.1
12	6.0	9.0	6.6	6.7	4.5	1.7	1.3	1.0	1.1	0.8	0.9	1.5
13	5.5	9.0	6.1	6.3	4.6	1.7	1.1	1.0	1.0	0.9	0.9	2.5
14	4.8	8.9	5.4	5.7	4.4	2.0	1.0	1.0	1.0	1.0	0.9	3.7
15	3.8	8.5	8.0	5.3	4.2	2.3	0.9	1.1	1.0	1.1	0.9	4.0
16	3.6	6.8	8.8	4.9	4.0	2.6	0.9	1.1	1.1	1.1	0.8	3.9
17	3.5	5.0	9.2	4.6	4.0	2.8	0.9	1.3	1.1	1.0	0.8	3.5
18	3.4	4.6	9.5	4.3	3.9	2.8	0.9	1.4	1.1	0.9	0.8	3.0
19	3.3	4.5	10.0	4.1	3.8	2.8	0.8	1.5	1.1	0.9	0.8	2.9
20	3.3	4.9	10.2	3.9	3.6	2.9	0.7	1.4	1.0	0.9	0.8	2.7
21	3.3	5.1	10.2	3.8	3.4	2.7	0.7	1.3	0.9	0.8	0.8	2.8
22	3.2	5.7	10.3	3.6	3.1	2.4	0.9	1.3	0.9	0.8	0.8	2.9
23	3.1	5.0	10.2	3.6	2.9	2.2	1.0	1.2	0.8	0.8	0.8	3.0
24	3.1	4.9	10.1	3.7	2.7	2.0	1.5	1.1	0.8	0.8	0.8	3.1
25	3.4	4.8	10.1	4.5	2.6	1.8	1.6	1.1	0.8	0.8	0.8	3.4
26	3.7	4.5	10.1	5.1	2.6	1.7	1.7	1.0	0.8	0.8	1.0	3.9
27	3.8	5.2	9.9	5.0	2.5	1.5	1.8	1.0	0.9	0.8	1.1	3.7
28	3.6	6.0	9.6	5.0	2.5	1.3	1.9	0.9	0.9	0.8	1.3	3.5
29	3.4	-----	8.9	4.8	2.3	1.2	1.7	0.9	0.9	0.8	1.3	3.3
30	3.3	-----	7.0	4.8	2.2	1.4	1.8	0.9	0.9	0.8	1.3	3.1
31	3.1	-----	7.3	-----	2.1	-----	2.0	0.9	-----	0.8	-----	3.1

DAILY RIVER STAGES.

Ohio River system (Tennessee River branch)—Tennessee River, Lower Muscle Shoals, Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1									1.7	0.7	0.4	2.9
2									1.1	0.6	0.3	3.2
3									1.1	1.2	0.3	4.0
4									1.0	0.9	0.3	4.2
5									0.8	1.0	0.4	4.3
6									0.7	1.2	0.6	4.0
7									0.7	1.0	0.6	3.7
8									0.6	1.0	0.5	2.8
9									0.5	0.9	0.5	2.4
10									0.5	0.8	1.2	2.6
11									0.5	0.6	1.2	2.0
12									0.8	0.6	1.6	2.0
13									0.9	0.9	2.4	1.9
14									0.9	0.5	1.8	1.9
15									0.8	0.4	2.2	2.0
16									0.7	0.4	2.6	2.4
17									0.6	0.4	2.5	2.3
18									0.7	0.4	2.3	2.1
19									0.5	0.4	2.0	2.0
20									0.4	0.5	1.8	1.5
21									0.4	0.5	1.6	2.0
22									0.4	0.5	1.4	1.9
23									0.4	0.6	1.3	1.9
24									0.4	0.6	1.2	1.9
25									0.4	0.5	1.0	1.8
26									0.4	0.5	0.9	1.7
27									0.4	0.4	0.8	1.8
28									0.5	0.4	1.0	1.4
29									0.7	0.3	1.4	1.6
30									1.0	0.3	2.1	1.3
31										0.4		1.3

1897.

1	1.2	2.0	7.7	4.1	2.5	1.8	2.6	2.6	1.0	0.2	0.4	0.2
2	1.0	1.9	7.8	4.8	2.5	1.8	2.2	1.9	1.0	0.2	0.4	0.2
3	1.1	1.4	7.5	4.5	2.4	1.7	1.7	1.8	0.9	0.2	0.3	0.5
4	1.1	3.5	5.7	6.0	2.4	1.8	1.8	1.6	0.8	0.2	0.3	0.7
5	1.4	3.8	3.4	7.7	2.7	1.8	1.7	1.5	0.7	0.2	0.3	1.5
6	1.4	3.9	4.3	8.2	3.2	1.8	1.8	1.5	0.7	0.2	0.3	1.4
7	1.4	4.2	5.8	8.3	3.2	1.7	1.7	1.4	0.6	0.2	0.4	1.6
8	1.4	4.2	5.9	8.0	3.1	1.7	1.5	1.4	0.6	0.2	0.4	1.7
9	1.4	4.4	6.9	8.4	2.9	1.7	1.4	1.5	0.6	0.1	0.5	1.7
10	1.4	4.5	7.8	8.8	2.8	1.7	1.3	1.6	0.5	0.2	0.6	1.6
11	1.3	4.9	7.6	8.5	3.0	1.7	1.6	1.6	0.5	0.2	0.6	1.5
12	1.3	5.4	9.1	7.9	2.7	1.7	1.7	1.9	0.5	0.2	0.5	1.2
13	1.3	4.9	10.2	6.6	3.3	1.7	1.7	2.0	0.4	0.2	0.6	1.2
14	1.3	4.4	11.2	5.4	4.3	2.0	1.7	1.8	0.4	0.2	0.4	1.2
15	1.4	4.0	11.7	4.7	5.1	2.0	1.6	1.6	0.4	0.2	0.4	1.1
16	1.8	3.8	12.6	4.5	6.0	1.7	1.5	1.5	0.3	0.2	0.4	1.0
17	2.4	3.8	13.4	4.2	6.4	1.7	1.5	1.2	0.3	0.4	0.4	1.0
18	2.9	3.8	13.2	4.1	6.4	1.6	1.5	1.2	0.3	0.4	0.4	1.1
19	3.2	3.7	17.7	3.9	5.8	1.5	1.7	1.1	0.3	0.4	0.4	1.3
20	3.4	3.5	(¹)	3.8	4.7	1.5	2.3	1.1	0.2	0.4	0.4	1.6
21	3.0	3.3	(¹)	3.7	3.8	1.4	2.6	1.1	0.2	0.5	0.3	2.4
22	3.3	3.2	(¹)	3.5	3.2	1.2	2.4	1.3	0.2	0.5	0.3	3.1
23	3.4	3.2	(¹)	3.3	2.8	1.3	2.4	2.3	0.2	0.5	0.4	3.8
24	3.1	4.0	12.5	3.1	2.6	1.6	2.4	1.2	0.2	0.6	0.3	4.2
25	3.3	5.3	12.0	3.0	2.4	1.8	2.2	1.2	0.2	0.6	0.3	4.1
26	3.0	6.4	11.0	2.5	2.3	1.9	2.2	1.2	0.2	0.6	0.3	4.0
27	2.8	6.8	10.2	2.7	2.2	1.9	2.6	1.3	0.2	0.6	0.3	3.5
28	2.6	7.5	8.8	2.5	2.1	2.0	3.4	1.3	0.2	0.6	0.3	3.0
29	3.4		6.7	2.4	2.0	2.1	3.8	1.1	0.2	0.6	0.3	2.8
30	2.2		5.0	2.5	1.9	2.0	3.3	1.1	0.2	0.6	0.2	2.4
31	2.0		4.0		1.9		2.6	1.0		0.5		2.2

¹ Water above gage.

DAILY RIVER STAGES.

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Ohio River system (Tennessee River branch)—Tennessee River, Lower Muscle Shoals, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.0	4.8	1.8	3.1	3.0	1.8	1.0	2.3	1.5	1.9	2.1	2.1
2	1.9	4.0	1.8	4.2	2.9	1.6	1.0	2.7	1.5	1.5	2.0	2.0
3	1.8	3.8	1.7	5.1	2.8	1.5	1.0	3.0	1.4	1.5	1.9	2.0
4	1.7	3.0	1.6	5.5	2.6	1.3	0.9	2.9	1.4	1.3	1.7	2.0
5	1.6	2.8	1.6	5.2	2.5	1.3	0.9	2.7	2.5	1.2	1.7	2.0
6	1.5	2.5	1.5	5.1	2.3	1.2	0.9	2.3	4.6	1.2	1.6	2.0
7	1.4	2.4	1.5	5.6	2.2	1.1	0.9	2.3	5.6	2.0	1.6	2.0
8	1.4	2.4	1.6	4.9	2.1	1.1	0.9	3.1	6.0	4.2	1.5	2.1
9	1.3	2.1	1.5	4.6	2.0	1.0	0.9	4.2	5.5	4.7	1.5	2.4
10	1.3	2.0	1.5	4.1	1.9	1.0	0.9	4.4	4.5	4.3	1.6	2.4
11	1.4	2.0	1.5	3.9	1.8	0.9	0.9	4.2	4.5	3.5	1.7	2.3
12	1.5	2.0	1.5	3.9	1.8	0.8	0.9	3.8	3.5	3.1	1.7	2.2
13	2.0	2.0	1.5	3.4	1.7	0.8	1.1	3.4	2.8	2.7	1.7	2.1
14	2.4	1.9	1.5	3.8	1.8	0.8	1.2	4.0	2.5	2.4	1.8	2.0
15	4.8	1.9	1.7	3.9	1.8	0.8	1.2	4.3	2.2	2.2	1.9	1.9
16	5.2	1.8	2.4	3.6	1.8	0.9	1.2	4.6	2.0	2.1	1.9	1.8
17	5.8	1.8	2.7	3.7	1.7	0.9	1.2	4.6	1.9	2.0	1.8	1.6
18	5.1	1.7	2.8	3.6	1.7	0.8	1.2	4.8	1.7	1.9	1.7	1.6
19	4.9	1.7	2.9	3.7	1.6	0.8	1.2	4.0	1.6	1.9	1.7	1.6
20	5.8	1.6	2.8	4.5	1.6	0.9	1.8	2.8	1.5	1.9	1.7	1.6
21	5.6	1.6	2.6	4.6	1.6	0.9	1.8	2.3	1.5	2.2	1.7	2.1
22	5.5	1.6	2.6	4.4	1.5	1.1	1.7	2.2	1.5	2.6	2.0	2.5
23	5.8	1.6	2.6	4.0	1.5	1.6	1.5	2.2	1.5	3.2	2.3	2.7
24	5.9	1.5	2.5	3.8	1.5	2.0	1.5	2.2	1.4	3.1	2.5	2.1
25	5.4	1.5	2.4	3.5	1.5	2.3	1.3	2.0	1.6	3.0	2.7	2.6
26	5.8	1.5	2.4	3.4	1.4	2.2	1.3	1.9	1.8	2.6	2.7	2.3
27	6.5	1.8	2.1	3.4	1.5	1.8	1.2	1.7	1.9	2.7	2.6	2.2
28	6.5	1.8	2.0	3.2	1.3	1.6	1.8	1.5	2.3	2.6	2.5	2.2
29	6.4	-----	2.4	3.2	1.5	1.3	1.9	1.5	2.4	2.5	2.3	2.2
30	6.1	-----	3.0	3.0	1.8	1.1	2.0	1.4	2.1	2.4	2.2	2.2
31	5.7	-----	3.0	-----	1.8	-----	2.2	1.5	-----	2.2	-----	2.1

1899.

1	2.1	2.7	7.1	6.7	4.0	1.7	1.3	1.7	0.5	0.4	0.3	- 0.9
2	2.1	2.8	7.0	6.9	3.9	1.7	1.3	1.7	0.5	0.4	0.3	0.9
3	1.9	2.8	6.9	6.8	3.3	1.7	1.2	1.8	0.7	0.4	0.3	0.8
4	1.9	3.1	6.6	7.0	3.0	1.7	1.2	1.6	0.7	0.4	0.3	0.7
5	2.1	5.7	6.0	6.6	2.8	1.6	1.2	1.4	0.8	0.4	0.4	0.7
6	3.2	7.2	5.9	6.2	2.7	1.6	1.2	1.2	0.9	0.4	0.4	0.7
7	5.1	8.2	6.0	5.5	2.5	1.8	1.1	1.1	1.0	0.3	0.4	0.7
8	6.1	8.7	6.5	5.1	2.6	1.8	1.1	1.0	1.0	0.3	0.4	0.7
9	6.4	8.8	7.0	5.8	3.1	1.7	1.0	1.0	0.9	0.3	0.5	0.7
10	6.3	9.0	7.3	6.3	3.3	1.6	1.0	1.0	0.8	0.3	0.5	0.8
11	6.3	9.4	7.3	5.5	3.5	1.6	1.0	0.9	0.7	0.3	0.5	1.5
12	6.6	9.9	6.8	6.1	3.7	1.5	1.0	0.9	0.6	0.4	0.5	2.3
13	5.4	10.1	5.8	5.5	3.9	1.4	1.0	0.8	0.6	0.4	0.5	2.6
14	4.5	10.0	5.2	5.0	3.5	1.5	1.0	0.8	0.5	0.5	0.5	3.1
15	4.0	9.7	8.0	4.5	3.3	1.7	0.9	0.8	0.6	0.6	0.5	3.5
16	3.7	7.2	10.5	4.2	3.3	2.0	0.9	0.8	0.6	0.6	0.5	3.4
17	3.4	5.2	11.3	4.0	3.3	2.3	0.9	0.8	0.6	0.6	0.4	3.1
18	3.2	4.4	11.4	3.5	3.2	2.3	0.8	0.9	0.6	0.5	0.4	2.7
19	3.2	4.1	13.0	3.3	3.0	2.3	0.7	1.0	0.5	0.5	0.4	2.7
20	3.1	4.3	13.5	3.3	2.7	2.3	0.7	1.0	0.5	0.4	0.3	2.9
21	3.0	4.5	13.5	3.3	2.7	2.2	0.7	0.9	0.5	0.4	0.4	2.7
22	3.0	4.5	13.1	3.2	2.5	2.0	0.8	0.9	0.5	0.4	0.5	2.7
23	2.8	4.6	12.7	3.1	2.3	1.7	1.1	0.8	0.5	0.5	0.4	2.7
24	2.7	4.4	12.5	3.2	2.2	1.6	1.1	0.7	0.4	0.4	0.4	3.1
25	3.1	4.2	12.3	3.5	2.1	1.5	1.3	0.7	0.3	0.3	0.6	3.3
26	3.4	5.7	12.1	3.9	2.1	1.3	1.3	0.6	0.3	0.3	0.6	3.5
27	3.4	6.5	11.7	4.8	2.0	1.3	1.4	0.6	0.3	0.3	0.7	3.4
28	3.3	7.2	11.2	4.7	1.9	1.2	1.6	0.5	0.5	0.3	0.8	3.0
29	3.1	-----	10.0	4.4	1.9	1.1	1.4	0.5	0.5	0.3	0.9	2.9
30	2.1	-----	8.1	4.2	1.8	1.1	1.4	0.5	0.4	0.3	0.9	2.7
31	2.7	-----	7.0	-----	1.8	-----	1.6	0.5	-----	0.3	-----	2.5

DAILY RIVER STAGES.

Ohio River system (Tennessee River branch)—Tennessee River, Florence, Ala.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.2	5.4	3.6	7.3	4.5	1.7	1.2	5.2	1.8	0.7	0.1	5.1
2	4.0	11.6	3.5	11.7	4.2	1.5	1.2	4.2	1.5	0.6	0.1	6.0
3	3.8	13.3	3.3	15.0	3.7	1.4	1.3	3.6	1.2	0.5	0.1	8.0
4	3.7	13.7	3.3	16.7	3.5	1.4	1.5	3.3	0.9	0.8	0.2	8.8
5	3.6	13.5	3.0	17.4	3.4	1.8	1.5	2.9	0.8	0.9	0.2	8.9
6	3.6	12.4	3.0	17.5	3.3	2.8	1.8	2.8	0.7	0.9	0.3	7.6
7	3.4	12.1	3.3	18.5	3.2	3.2	1.9	2.5	0.7	0.1	0.3	6.1
8	3.3	11.2	3.8	19.2	3.3	3.0	2.0	2.5	0.4	0.1	0.2	4.9
9	3.4	11.9	3.5	19.9	3.3	3.0	2.1	2.7	0.4	0.9	0.2	4.0
10	3.0	12.7	3.2	19.3	3.1	2.6	2.7	2.6	0.4	0.8	0.5	3.4
11	2.9	12.4	3.1	15.7	2.9	2.6	4.5	2.1	0.4	0.9	1.2	3.1
12	2.7	11.6	3.1	10.3	2.6	2.7	8.8	1.9	0.8	0.7	2.4	2.8
13	2.5	11.3	3.0	7.5	2.3	3.9	11.3	1.6	0.9	0.5	3.9	2.7
14	2.3	11.7	3.0	6.2	2.1	4.2	11.9	1.4	0.9	0.2	2.8	2.7
15	2.1	12.0	3.1	5.4	1.8	3.6	11.0	1.4	0.7	0.2	3.4	3.0
16	2.0	11.7	4.1	4.9	1.6	3.0	9.0	1.4	0.6	0.2	4.3	4.0
17	1.9	11.5	7.5	4.5	1.5	2.4	8.2	1.4	0.6	0.2	4.2	3.6
18	1.7	11.1	7.3	4.2	1.4	2.0	8.2	1.4	0.6	0.2	3.6	3.4
19	1.7	10.2	8.2	3.8	1.3	1.7	8.1	1.3	0.4	0.4	3.0	2.8
20	1.7	9.0	11.5	3.8	1.3	1.6	8.9	1.2	0.4	0.4	2.6	2.5
21	1.5	7.7	12.7	3.4	1.3	1.5	8.3	1.1	0.3	0.3	2.2	2.5
22	1.6	6.6	12.9	3.3	1.2	1.4	7.0	1.1	0.4	0.4	1.8	2.7
23	1.8	5.7	12.2	3.3	1.2	1.5	5.6	0.9	0.3	0.5	1.5	2.9
24	2.4	5.0	10.5	3.2	1.2	1.9	4.8	0.9	0.3	0.4	1.3	2.7
25	2.9	4.6	9.2	3.1	1.3	1.8	4.0	0.8	0.2	0.4	1.0	2.5
26	4.0	4.0	8.2	3.0	1.4	1.8	5.7	0.8	0.2	0.4	0.9	2.3
27	5.0	3.8	7.5	3.4	2.0	1.7	5.7	0.8	0.2	0.4	0.8	2.0
28	5.7	3.6	6.8	4.4	2.3	2.1	5.0	0.9	0.3	0.3	1.3	1.8
29	6.0	3.5	6.3	4.1	2.4	1.7	6.7	0.9	0.6	0.1	5.3	1.6
30	5.4	-----	5.8	4.1	2.2	1.3	7.5	1.0	0.7	0.1	5.7	1.5
31	4.7	-----	6.8	-----	1.9	-----	6.5	1.0	-----	0.1	-----	1.3

1897.

1	1.2	2.9	16.7	8.5	4.3	2.5	3.4	3.8	0.9	-0.3	0.1	-0.2
2	1.1	3.5	17.2	10.3	4.2	2.4	3.2	3.1	0.8	-0.3	0.1	-0.2
3	1.0	4.0	15.9	9.9	4.1	2.3	2.7	2.6	0.6	-0.3	0.0	0.2
4	1.2	5.7	11.4	13.0	4.1	2.5	2.5	2.2	0.5	-0.3	0.0	0.4
5	1.6	7.8	9.2	16.1	4.7	2.4	2.3	2.0	0.5	-0.3	0.1	1.4
6	1.7	8.2	8.9	17.1	6.0	2.4	2.1	1.9	0.5	-0.3	0.1	1.6
7	1.7	8.8	12.5	17.5	6.3	2.4	1.7	2.0	0.4	-0.4	0.0	1.8
8	1.7	8.7	13.9	17.0	5.8	2.3	1.8	1.7	0.3	-0.4	0.0	2.3
9	1.7	9.0	14.5	17.7	5.2	2.3	1.9	1.9	0.2	-0.4	0.0	2.2
10	1.7	9.5	15.7	18.3	4.9	2.3	1.9	2.1	0.2	-0.4	0.1	2.1
11	1.6	10.4	16.9	17.9	4.8	2.4	1.9	2.1	0.2	-0.5	0.2	1.9
12	1.5	10.8	19.3	16.7	4.9	2.3	2.4	2.8	0.2	-0.4	0.1	1.4
13	1.5	10.4	20.8	14.4	6.6	2.3	2.2	3.1	0.2	-0.4	0.1	1.4
14	1.5	9.0	22.1	11.9	7.6	3.2	2.2	2.8	0.1	-0.4	0.0	1.1
15	1.9	8.2	22.7	10.1	10.6	3.2	2.4	2.3	0.1	-0.4	0.0	1.0
16	2.4	7.8	23.9	9.2	13.0	2.7	2.4	2.0	-0.1	-0.4	0.0	0.9
17	3.0	7.8	25.0	8.5	13.6	2.4	2.2	1.7	-0.1	-0.3	0.1	0.9
18	5.0	7.7	25.8	8.1	13.6	2.0	2.0	1.4	-0.2	-0.3	0.1	1.0
19	6.2	7.2	31.1	7.8	12.6	1.8	2.6	1.1	-0.2	0.0	0.1	1.4
20	6.4	6.7	31.6	7.6	10.3	1.7	3.7	1.2	-0.2	0.0	0.0	1.9
21	6.0	6.1	28.8	7.1	7.7	1.6	4.4	1.4	-0.2	0.1	-0.1	4.4
22	6.4	6.0	27.5	6.7	6.5	1.5	4.1	1.3	-0.3	0.1	-0.2	6.2
23	6.5	6.1	25.6	6.1	5.2	1.5	3.8	1.5	-0.3	0.1	-0.2	7.2
24	6.1	8.1	24.5	5.7	4.7	2.2	4.0	1.4	-0.3	0.2	-0.2	7.2
25	5.9	11.3	23.1	5.3	4.2	2.5	3.7	1.2	-0.3	0.3	-0.2	8.7
26	5.5	13.7	22.0	4.9	3.8	2.7	3.7	1.4	-0.3	0.3	-0.2	8.0
27	5.0	14.9	20.9	4.7	3.6	2.8	4.6	1.5	-0.3	0.2	-0.2	6.7
28	4.5	16.0	19.5	4.5	3.4	3.3	6.3	1.4	-0.3	0.2	-0.2	5.7
29	4.0	-----	15.0	4.2	3.1	3.3	7.7	1.2	-0.3	0.2	-0.2	4.7
30	3.5	-----	11.4	4.3	2.7	3.2	6.5	1.0	-----	0.2	-0.2	4.1
31	3.0	-----	9.5	-----	2.7	-----	4.8	1.0	-----	0.1	-----	3.5

132.5 at midnight.

Ohio River system (Tennessee River branch)—Tennessee River, Florence, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.0	10.3	2.4	6.0	5.3	2.7	1.0	3.8	2.1	2.7	3.3	3.3
2	2.6	8.2	2.4	9.0	5.5	2.2	1.0	4.9	2.1	2.2	3.0	3.1
3	2.6	6.8	2.2	11.0	5.2	1.8	1.0	5.6	1.9	2.0	2.7	3.0
4	2.2	6.0	2.1	11.5	4.8	1.6	0.8	5.5	1.8	1.7	2.5	3.0
5	1.9	5.2	2.0	11.2	4.3	1.6	0.8	5.0	3.6	1.6	2.4	3.0
6	1.9	4.6	1.8	11.2	4.0	1.4	0.8	4.0	9.6	1.5	2.2	3.3
7	1.8	4.4	1.8	10.6	3.6	1.3	0.7	3.4	12.0	2.8	2.0	3.3
8	1.6	3.8	1.8	10.0	3.4	1.1	0.7	5.9	12.8	8.7	1.9	3.6
9	1.5	3.5	2.0	9.7	3.2	1.0	0.7	8.6	12.0	9.9	1.9	3.9
10	1.4	3.3	2.0	8.8	2.8	0.8	0.7	9.0	9.2	8.7	2.0	3.9
11	1.6	3.2	1.9	7.9	2.7	0.7	0.7	8.7	7.3	7.1	2.2	3.7
12	1.8	3.0	1.8	7.7	2.7	0.6	0.9	8.3	6.0	5.8	2.3	3.4
13	3.2	2.9	2.0	7.5	2.6	0.6	1.0	7.0	5.2	5.2	2.3	3.2
14	4.0	2.8	1.9	7.7	2.8	0.5	1.4	7.9	4.2	4.5	2.4	3.0
15	10.0	2.6	2.2	7.7	2.8	0.6	1.5	9.0	3.8	3.9	2.9	2.9
16	13.5	2.5	4.1	7.4	2.6	0.7	1.5	10.0	3.3	3.7	2.9	2.5
17	12.8	2.5	4.7	7.3	2.4	0.7	1.3	9.7	2.9	3.2	2.6	2.3
18	10.0	2.2	4.1	7.0	2.2	0.6	1.3	8.7	2.5	3.1	2.4	2.2
19	10.4	2.3	5.2	7.5	2.1	0.6	1.5	6.8	2.3	3.0	2.4	2.0
20	13.8	2.2	5.0	9.5	2.1	0.6	1.5	5.4	2.2	3.0	2.3	2.2
21	12.0	2.1	4.7	9.8	2.0	0.7	2.8	4.5	2.0	3.7	2.5	3.2
22	11.4	2.0	4.8	9.0	2.0	1.3	2.4	3.9	2.0	4.7	3.0	4.1
23	12.6	2.0	4.7	8.0	1.9	2.2	2.1	3.8	1.9	6.0	3.9	4.8
24	12.8	1.9	4.1	7.7	1.8	2.2	1.9	3.5	1.8	6.1	4.4	4.5
25	12.0	1.9	4.0	6.9	1.8	3.8	1.6	3.3	2.2	5.5	4.9	4.1
26	12.8	1.9	3.8	6.8	1.7	3.3	1.6	3.1	2.8	5.0	4.8	3.8
27	13.7	2.2	3.4	6.5	1.6	2.8	1.7	2.6	2.9	4.9	4.6	3.6
28	13.8	2.4	3.2	6.2	1.6	2.3	2.5	2.3	4.0	4.9	4.3	3.6
29	13.8	-----	4.4	5.9	2.0	1.8	2.6	2.2	4.0	4.6	3.8	3.6
30	13.4	-----	5.7	5.9	2.7	1.3	3.3	1.9	3.5	4.1	3.3	3.5
31	12.7	-----	6.1	-----	3.0	-----	3.8	2.0	-----	3.7	-----	3.4

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.3	4.5	15.1	14.3	6.7	2.3	1.5	2.3	0.1	0.1	-0.1	0.7
2	3.2	4.8	14.4	14.4	6.0	2.3	1.6	2.4	0.2	0.0	-0.1	0.6
3	3.0	5.2	14.3	14.5	5.7	2.3	1.4	2.6	0.2	0.0	-0.1	0.5
4	2.9	6.3	13.6	14.5	5.3	2.4	1.4	2.2	0.3	0.0	-0.1	0.5
5	3.0	12.1	12.6	13.3	4.9	2.2	1.4	1.9	0.6	0.0	-0.1	0.3
6	5.9	15.5	12.2	11.4	4.7	2.3	1.2	1.5	0.8	0.0	-0.1	0.4
7	10.7	17.5	12.6	10.7	4.3	2.5	1.1	1.2	0.9	0.0	0.0	0.3
8	13.3	18.3	13.6	11.9	4.5	2.4	1.0	1.1	0.9	0.0	0.0	0.4
9	14.2	18.5	14.5	12.9	5.4	2.3	0.8	1.0	0.8	0.0	0.1	0.3
10	13.1	19.0	15.0	13.3	5.9	2.2	0.8	0.9	0.6	-0.1	0.1	0.3
11	13.9	19.5	15.3	13.5	6.6	2.0	1.0	0.8	0.6	0.0	0.1	2.0
12	13.3	20.0	14.5	12.8	7.0	1.7	1.1	0.8	0.4	0.0	0.2	3.6
13	11.4	20.0	12.3	11.5	7.4	1.8	0.9	0.8	0.3	0.1	0.2	4.6
14	9.5	20.5	10.9	10.4	7.2	1.8	0.9	0.8	0.3	0.2	0.1	5.8
15	8.1	19.3	16.3	9.4	6.7	2.4	0.8	0.6	0.3	0.3	0.2	6.6
16	7.3	14.7	20.7	8.4	6.3	2.9	0.7	0.6	0.3	0.4	0.1	6.5
17	6.7	11.4	21.7	7.7	6.3	3.5	0.7	0.6	0.3	0.4	0.1	6.0
18	6.4	9.0	22.2	7.3	6.1	3.7	0.6	0.8	0.4	0.4	0.1	5.2
19	6.2	8.4	24.3	6.8	6.0	3.6	0.5	0.9	0.4	0.2	0.0	4.8
20	6.0	8.6	25.2	6.4	5.4	3.8	0.5	0.9	0.2	0.1	0.0	5.5
21	5.7	9.2	24.8	6.1	4.7	3.5	0.5	0.8	0.2	0.1	0.0	4.9
22	5.4	9.6	24.6	5.8	4.5	2.9	0.6	0.7	0.2	0.1	0.1	4.5
23	4.3	9.5	24.2	5.9	4.0	2.5	1.0	0.7	0.1	0.1	0.1	4.5
24	4.0	9.0	23.7	6.5	3.6	2.2	1.2	0.5	0.1	0.0	0.0	6.0
25	6.0	8.4	23.6	8.2	3.4	1.8	1.5	0.4	0.0	0.0	0.1	6.3
26	6.7	9.3	23.3	8.7	3.2	1.7	1.5	0.4	-0.1	0.0	0.2	6.7
27	6.5	13.7	22.9	9.2	3.0	1.5	2.0	0.3	0.0	0.0	0.3	6.5
28	6.5	17.9	22.7	9.0	2.9	1.3	2.2	0.2	0.2	0.0	0.6	5.8
29	5.9	-----	20.7	8.4	2.7	1.3	1.8	0.2	0.2	0.0	0.8	5.2
30	5.4	-----	17.5	7.4	2.5	1.2	1.8	0.2	0.1	-0.1	0.8	4.7
31	4.9	-----	14.7	-----	2.4	-----	2.0	0.1	-----	-0.1	-----	4.3

DAILY RIVER STAGES.

*Ohio River system (Tennessee River branch)—Tennessee River, Riverton, Ala.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1									1.3	0.0	-0.9	6.8
2									1.5	-0.1	-0.9	8.7
3									1.1	-0.3	-1.0	10.3
4									0.6	0.2	-1.0	11.8
5									0.3	0.4	-0.7	12.4
6									0.1	0.3	-0.8	11.3
7									-0.2	0.6	-0.4	9.2
8									-0.4	0.7	-0.5	7.1
9									-0.5	0.7	-0.6	5.6
10									-0.6	0.3	-0.4	4.6
11									-0.7	0.0	0.5	4.1
12									-0.2	-0.2	2.6	3.7
13									0.4	-0.5	4.4	3.5
14									0.5	-0.7	3.6	3.4
15									0.2	-0.8	3.4	3.9
16									-0.1	-0.9	5.5	5.1
17									-0.3	-0.9	5.6	4.8
18									-0.5	-0.9	4.9	4.5
19									-0.6	-0.9	4.0	3.8
20									-0.8	-0.6	3.3	3.4
21									-0.9	-0.5	2.8	3.1
22									-0.8	-0.6	2.2	3.2
23									-0.8	-0.4	1.8	3.5
24									-0.9	-0.4	1.4	3.4
25									-0.9	-0.5	1.1	3.1
26									-1.0	-0.6	0.9	2.9
27									-1.0	-0.7	0.7	2.5
28									-0.8	-0.8	1.0	2.2
29									-0.2	-0.9	4.4	2.0
30									-0.1	-0.9	7.9	1.7
31										-0.9		1.6

1897.

1	1.4	3.8	25.1	22.7	5.7	2.8	3.8	5.0	0.5	-1.8	-0.9	-1.7
2	1.2	4.0	26.3	21.5	5.7	2.7	3.8	3.8	0.4	-1.8	-1.2	-1.6
3	1.1	5.3	26.5	20.2	5.3	2.6	3.3	3.1	0.2	-1.8	-1.4	-1.0
4	1.4	6.3	23.6	20.6	5.4	2.6	2.9	2.4	0.1	-1.9	-1.5	-0.1
5	1.6	9.9	17.6	25.4	5.4	2.6	2.5	2.0	-0.3	-1.8	-1.5	1.6
6	2.1	11.6	14.3	27.5	6.9	2.6	2.2	1.9	-0.3	-1.8	-1.5	1.8
7	2.2	12.3	17.8	28.8	8.1	2.6	1.9	2.0	-0.5	-1.9	-1.5	2.1
8	2.1	12.8	21.3	26.9	8.8	2.5	1.6	1.7	-0.6	-2.0	-1.3	2.4
9	2.0	13.1	22.6	29.1	6.6	2.4	1.9	1.9	-0.7	-2.0	-1.1	2.5
10	1.9	13.7	24.2	29.8	6.3	2.4	1.9	2.0	-0.7	-2.0	-1.2	2.3
11	1.9	14.8	25.8	30.1	6.3	2.5	1.8	2.2	-0.8	-2.0	-0.8	2.0
12	1.8	15.9	28.9	29.4	6.3	2.5	2.7	2.6	-0.9	-1.9	-0.9	1.6
13	1.7	15.8	33.3	26.9	8.4	2.3	2.6	3.4	-1.0	-1.9	-1.0	1.2
14	1.9	14.2	35.6	23.3	11.4	3.2	2.3	3.2	-1.1	-1.9	-1.1	1.1
15	2.2	12.3	37.1	19.2	14.0	3.7	2.5	2.7	-1.2	-1.8	-1.3	0.8
16	2.9	11.2	38.3	16.0	17.7	3.2	2.5	2.2	-1.2	-1.9	-1.3	0.6
17	3.8	11.0	40.0	13.6	19.9	2.6	2.3	1.6	-1.3	-1.8	-1.1	0.4
18	4.9	10.9	41.4	12.2	20.6	2.1	2.2	1.2	-1.4	-1.5	-1.3	0.6
19	8.6	10.4	47.3	11.5	19.8	1.8	2.3	0.9	-1.5	-1.3	-1.2	1.2
20	8.9	9.5	50.3	10.9	18.8	1.7	3.3	0.8	-1.6	-1.2	-1.4	2.2
21	8.7	8.0	48.7	10.3	12.4	1.6	5.0	1.0	-1.6	-1.3	-1.5	5.4
22	8.7	7.6	47.1	9.6	9.0	1.4	5.0	1.1	-1.7	-1.0	-1.6	8.6
23	9.1	7.5	46.0	8.8	7.1	1.3	4.8	1.2	-1.7	-1.1	-1.7	10.4
24	8.8	10.0	44.5	8.0	6.1	1.8	4.8	1.0	-1.7	-1.1	-1.6	11.4
25	8.0	14.3	42.5	7.3	5.3	2.5	4.4	1.1	-1.7	-0.6	-1.7	12.5
26	7.4	18.8	40.9	6.8	4.8	2.8	4.2	1.2	-1.7	-0.6	-1.6	12.0
27	6.8	21.6	39.3	6.4	4.3	3.0	4.8	1.4	-1.7	-0.7	-1.6	9.9
28	6.2	23.5	37.3	6.0	4.0	3.4	6.7	1.4	-1.7	-0.8	-1.7	8.0
29	5.6		34.0	5.7	3.7	3.9	9.6	1.0	-1.7	-0.8	-1.7	6.5
30	5.0		30.6	5.7	3.3	3.5	9.1	0.7	-1.7	-0.9	-1.6	5.4
31	4.1		26.0		3.1		6.7	0.7		-1.0		4.4

DAILY RIVER STAGES.

357

Ohio River system (Tennessee River branch)—Tennessee River, Riverton, Ala.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.7	17.0	2.8	8.2	7.5	3.1	0.8	4.5	1.9	3.2	3.8	3.9
2	3.2	13.2	2.8	10.6	7.2	2.5	0.6	4.8	1.8	2.4	3.5	3.8
3	2.9	10.0	2.5	14.6	6.6	2.0	0.5	6.7	1.7	1.8	2.9	3.5
4	2.5	8.1	2.2	16.4	6.1	1.5	0.3	7.1	1.5	1.6	2.8	3.5
5	2.2	6.9	2.0	16.8	5.4	1.3	0.3	6.4	2.0	1.2	2.4	3.4
6	1.9	6.0	1.9	16.5	4.9	1.1	0.3	5.0	10.0	1.2	2.2	3.8
7	1.8	5.3	1.8	15.8	4.3	1.0	0.1	4.0	15.5	1.5	1.9	3.8
8	1.6	4.7	1.8	15.1	3.9	0.8	0.0	5.5	17.9	9.0	1.9	4.0
9	1.4	4.2	1.9	14.3	3.6	0.6	0.2	10.5	18.9	13.1	1.8	4.5
10	1.3	3.9	2.0	12.8	3.3	0.3	0.2	12.0	15.0	12.7	2.0	3.8
11	1.4	3.7	2.0	11.4	3.0	0.1	0.0	12.2	10.9	10.0	2.1	4.5
12	1.7	3.5	1.8	10.7	2.8	-0.1	0.1	10.0	8.1	7.8	2.3	4.3
13	3.5	3.4	1.8	10.2	2.7	0.1	0.4	8.9	6.7	6.6	2.4	3.9
14	4.5	3.2	2.2	10.3	2.6	-0.2	1.0	9.4	5.5	5.6	2.6	3.6
15	11.2	3.0	2.6	10.5	3.1	-0.3	1.2	11.5	4.5	4.7	3.0	3.3
16	20.2	2.7	3.8	10.1	2.9	0.0	1.3	12.9	3.8	4.0	3.2	2.8
17	20.8	2.8	6.0	9.6	2.6	0.0	1.1	13.4	3.2	3.7	3.0	2.5
18	18.8	2.7	6.5	9.4	2.3	0.0	0.9	12.2	2.7	3.6	2.7	2.2
19	16.7	2.5	6.9	9.8	2.2	-0.2	1.1	9.8	2.4	3.2	2.5	2.4
20	19.9	2.4	6.5	12.7	2.1	-0.2	2.0	7.3	2.1	3.1	2.4	2.4
21	21.3	2.2	6.0	14.2	2.0	0.2	3.1	5.6	1.8	3.6	2.5	3.4
22	20.0	2.1	5.9	13.4	1.9	0.4	2.6	4.7	2.1	4.7	3.3	4.8
23	20.6	2.0	5.9	11.9	1.8	1.9	2.2	4.2	1.6	6.7	4.0	5.8
24	21.1	2.0	5.5	10.3	1.8	3.0	1.9	3.9	1.7	7.7	5.2	5.3
25	20.0	1.9	5.0	9.4	1.7	4.4	1.5	3.7	1.8	7.2	5.9	5.0
26	20.0	1.9	4.6	9.1	1.6	4.0	1.2	3.3	2.6	6.2	6.1	4.7
27	21.0	2.5	4.1	8.9	1.4	3.3	1.7	2.9	2.9	5.8	5.4	4.5
28	21.6	2.8	3.7	8.5	1.4	2.7	2.2	2.4	3.8	5.9	5.3	4.3
29	21.8	-----	4.5	7.8	1.7	1.8	2.7	1.9	4.7	5.7	4.8	4.0
30	21.4	-----	7.5	7.6	2.4	1.2	3.2	1.8	4.2	5.0	4.2	4.3
31	19.9	-----	8.3	-----	3.3	-----	4.2	1.7	-----	4.3	-----	4.2

1899.

1	3.9	6.0	24.1	28.8	9.3	2.3	1.0	2.2	-1.4	-1.5	-1.9	-0.2
2	3.8	6.5	23.6	27.3	8.2	2.2	1.2	2.3	-1.2	-1.6	-2.0	-0.4
3	3.4	6.6	23.2	26.4	7.4	2.3	1.0	2.7	-0.8	-1.7	-2.0	-0.5
4	3.3	7.6	22.5	25.5	6.9	2.1	0.9	2.4	-0.7	-1.6	-1.9	-0.6
5	4.2	14.0	21.0	23.8	6.3	2.1	1.0	1.7	-0.5	-1.6	-1.8	-0.8
6	6.9	21.6	19.3	20.7	5.8	2.2	0.8	2.2	-0.2	-1.7	-1.7	-0.7
7	14.8	25.7	18.9	17.9	5.3	2.5	0.6	0.7	0.2	-1.8	-1.8	-0.8
8	19.0	27.9	20.1	17.7	5.3	2.4	0.4	0.6	0.3	-1.8	-1.8	-0.8
9	21.5	28.7	21.4	19.2	6.3	2.6	0.1	0.3	0.1	-1.9	-1.6	-0.8
10	22.0	29.3	22.5	20.3	7.3	2.0	0.0	0.1	-0.3	-1.9	-1.4	-0.8
11	21.9	30.1	23.3	20.7	8.3	2.0	0.2	0.0	-0.5	-1.8	-1.3	0.8
12	21.1	31.1	23.3	20.1	8.8	1.6	0.4	0.0	-0.8	-1.8	-1.3	4.6
13	18.8	31.7	21.1	18.4	9.5	1.5	0.3	-0.2	-1.0	-1.7	-1.4	6.5
14	15.7	32.2	17.5	16.1	9.6	1.6	0.1	-0.4	-1.0	-1.5	-1.5	6.8
15	12.8	32.3	22.9	14.1	9.0	2.1	0.0	-0.4	-1.1	-1.2	-1.5	8.8
16	10.9	30.0	30.5	12.4	8.2	2.9	-0.1	-0.4	-0.9	-1.0	-1.6	8.5
17	9.6	24.6	34.0	11.0	8.0	3.6	-0.3	-0.4	-0.9	-1.0	-1.7	7.7
18	8.9	18.6	35.5	10.1	7.9	4.2	-0.2	-0.2	-0.9	-1.0	-1.7	6.7
19	8.4	14.4	37.5	9.3	7.6	4.1	-0.4	0.0	-0.8	-1.2	-1.7	6.3
20	8.0	13.1	39.4	8.7	7.0	4.2	-0.6	0.1	-1.1	-1.4	-1.8	7.4
21	7.6	13.1	40.0	8.1	6.1	4.1	-0.7	-0.1	-1.3	-1.5	-1.8	6.9
22	7.3	13.8	40.0	7.5	5.3	3.4	0.0	-0.3	-1.4	-1.5	-1.7	6.1
23	6.8	13.8	39.6	7.4	4.8	2.7	0.0	-0.2	-1.5	-1.6	-1.5	6.2
24	6.5	13.0	39.1	8.3	4.4	2.3	0.5	-0.5	-1.6	-1.7	-1.6	7.4
25	7.0	12.0	38.7	9.9	4.0	1.8	1.0	-0.7	-1.8	-1.8	-1.6	8.6
26	8.7	12.3	38.5	12.9	3.6	1.4	1.2	-0.8	-1.8	-1.8	-1.0	8.9
27	8.9	19.9	38.2	13.1	3.4	1.1	1.4	-0.9	-1.8	-1.8	-0.9	8.9
28	8.8	22.6	37.5	12.5	3.1	0.9	2.1	-1.2	-1.5	-1.8	-0.4	8.0
29	8.1	-----	36.7	11.9	2.9	0.7	1.9	-1.2	-1.4	-1.6	-0.2	6.9
30	7.2	-----	34.6	10.6	2.6	0.7	1.5	-1.3	-1.4	-1.9	-0.1	6.1
31	6.4	-----	31.3	-----	2.5	-----	1.7	-1.4	-----	-1.9	-----	5.5

DAILY RIVER STAGES.

Ohio River system (Tennessee River branch)—Tennessee River, Johnsonville, Tenn.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.6	8.0	6.0	12.6	7.3	3.5	3.1	9.8	1.7	0.8	0.3	11.0
2	7.0	12.3	6.0	16.0	7.5	3.5	2.5	8.5	1.7	1.1	0.3	10.9
3	6.6	19.9	5.9	19.7	7.5	3.3	2.3	7.2	2.4	1.3	0.3	10.3
4	6.2	24.1	5.7	22.6	7.1	3.0	2.2	6.0	2.5	1.2	0.3	10.9
5	5.9	25.9	5.5	24.2	6.5	2.8	2.5	5.2	2.2	1.1	0.3	11.8
6	5.7	28.5	5.7	24.9	6.1	2.7	3.6	4.6	1.9	1.3	0.3	12.4
7	5.5	25.4	7.3	25.5	5.8	3.1	4.2	4.2	1.6	1.4	0.3	12.0
8	5.4	23.9	8.8	26.0	5.4	4.0	4.2	4.0	1.3	1.5	0.5	10.5
9	5.5	22.0	9.1	26.6	5.2	4.8	4.0	3.8	1.2	1.5	0.7	8.7
10	5.6	21.0	8.6	27.2	5.2	5.0	3.9	3.8	1.0	1.6	0.7	7.4
11	5.7	20.8	7.6	27.9	5.0	4.7	3.9	3.8	0.8	1.6	0.6	6.3
12	5.3	20.7	6.8	28.3	4.8	4.3	4.6	3.7	0.7	1.4	0.8	5.5
13	5.1	20.1	6.2	27.7	4.5	4.2	8.0	3.3	0.7	1.2	2.2	5.0
14	4.7	20.1	5.9	24.8	4.3	4.5	12.3	3.0	1.0	1.0	3.9	4.8
15	4.4	20.3	6.0	19.4	3.9	5.5	15.2	2.7	1.3	0.8	4.9	5.1
16	4.1	20.5	6.5	13.8	3.6	5.7	16.0	2.5	1.4	0.6	4.5	5.5
17	3.9	20.0	9.6	10.4	3.3	5.5	14.9	2.4	1.3	0.5	5.2	6.2
18	3.7	19.3	13.3	8.5	2.9	4.6	13.3	2.4	1.1	0.4	5.8	6.5
19	3.3	18.5	15.5	7.4	2.9	4.3	13.0	2.3	0.9	0.4	5.9	6.2
20	3.4	17.3	17.2	6.8	2.9	3.8	12.5	2.3	0.7	0.3	5.1	5.6
21	3.3	15.6	19.2	6.3	2.9	3.3	12.2	2.2	0.6	0.3	4.5	5.3
22	3.2	13.3	20.6	5.9	2.9	3.0	12.2	2.1	0.6	0.5	3.9	4.7
23	3.1	11.5	20.9	5.8	2.8	2.8	11.7	2.1	0.5	0.6	3.5	4.4
24	3.2	10.0	20.6	5.6	2.8	2.7	10.1	2.1	0.4	0.7	3.0	4.6
25	3.5	8.8	19.5	5.5	2.7	2.9	8.4	2.0	0.4	0.7	2.6	4.6
26	4.2	8.1	17.6	5.3	2.6	3.0	7.3	1.9	0.4	0.7	2.5	4.5
27	5.0	7.1	15.5	5.6	2.6	3.3	7.5	1.8	0.3	0.7	2.5	4.5
28	5.9	6.4	13.5	6.3	2.8	3.1	8.0	1.7	0.4	0.5	3.9	3.8
29	5.7	6.1	11.9	7.2	3.3	3.5	7.9	1.6	0.4	0.5	6.5	3.1
30	7.9	-----	11.0	7.6	3.5	3.6	8.1	1.6	0.5	0.4	8.8	3.3
31	8.0	-----	10.6	-----	3.6	-----	9.4	1.6	-----	0.3	-----	3.1

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1	2.9	6.1	21.8	40.1	8.3	4.5	4.8	8.2	2.0	-0.1	0.6	0.0
2	2.8	5.5	23.1	38.5	8.3	4.4	4.8	6.7	1.9	-0.1	0.6	0.0
3	2.7	5.9	24.2	36.2	7.8	4.2	4.9	5.5	1.9	-0.2	0.5	0.1
4	2.6	7.3	25.4	34.0	7.3	4.1	4.7	4.7	1.7	-0.2	0.4	0.4
5	3.0	8.2	26.0	32.6	7.0	4.0	4.3	4.1	1.6	-0.2	0.2	1.4
6	3.4	10.5	24.9	32.1	7.0	4.0	4.0	3.6	1.3	-0.3	0.1	2.8
7	3.8	12.0	22.9	32.0	7.8	4.0	3.7	3.3	1.1	-0.3	0.1	3.5
8	3.8	13.6	22.9	32.0	8.9	4.0	3.6	3.3	1.1	-0.3	0.1	3.6
9	3.7	14.6	24.0	32.0	8.9	4.0	3.3	3.4	1.0	-0.3	0.1	3.7
10	3.6	15.0	25.3	31.1	8.5	3.9	3.3	3.2	0.8	-0.3	0.3	3.8
11	3.5	15.3	26.4	30.5	8.0	3.8	3.3	3.3	0.8	-0.3	0.4	3.7
12	3.4	15.8	27.7	30.1	7.8	3.8	3.3	3.5	0.7	-0.3	0.5	3.5
13	3.3	16.2	29.3	29.8	8.0	3.9	3.5	3.6	0.7	-0.3	0.6	3.2
14	3.4	16.3	31.2	29.5	9.7	3.8	3.8	4.1	0.6	-0.3	0.6	2.9
15	3.6	15.4	32.8	28.8	12.1	4.1	3.8	4.4	0.5	-0.3	0.5	2.7
16	4.0	14.1	33.7	26.9	14.8	4.6	3.9	4.1	0.4	-0.3	0.4	2.5
17	4.5	12.7	34.8	24.0	17.0	4.7	3.9	3.7	0.4	-0.3	0.4	2.3
18	6.0	12.2	36.0	20.6	18.5	4.3	3.8	3.3	0.3	-0.3	0.5	2.2
19	7.8	11.9	37.5	17.6	19.5	3.8	3.8	2.9	0.2	-0.3	0.5	2.0
20	9.7	11.9	40.5	15.4	19.5	3.5	3.7	2.5	0.1	-0.3	0.5	2.5
21	10.5	10.7	43.7	14.0	18.1	3.3	4.2	2.2	0.1	0.0	0.5	5.0
22	10.6	10.1	46.2	12.8	15.2	3.3	5.5	2.2	0.1	0.1	0.4	8.0
23	10.6	10.4	47.4	11.9	12.0	3.1	6.1	2.2	0.1	0.2	0.2	11.2
24	10.4	11.4	48.0	10.9	9.5	2.9	6.0	2.3	0.0	0.3	0.1	12.8
25	10.3	12.5	47.7	9.9	8.0	3.0	5.8	2.3	0.0	0.3	0.1	13.3
26	9.6	15.0	47.2	9.5	7.0	3.5	5.7	2.3	-0.1	0.4	0.1	13.3
27	9.9	18.0	46.6	8.6	6.4	3.9	5.4	2.3	-0.1	0.4	0.1	12.9
28	8.3	20.1	45.7	8.0	5.9	4.1	5.6	2.3	-0.1	0.7	0.0	11.9
29	6.6	-----	44.7	7.5	5.5	4.4	7.1	2.4	-0.1	0.6	-0.1	9.9
30	6.5	-----	43.6	7.2	5.3	4.8	9.2	2.4	-0.1	0.6	-0.1	8.4
31	6.3	-----	42.1	-----	4.8	-----	9.5	2.1	-----	0.5	-----	7.2

DAILY RIVER STAGES.

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Ohio River system (Tennessee River branch)—Tennessee River, Johnsonville, Tenn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.3	23.8	4.3	15.0	9.0	3.9	3.0	5.5	3.1	5.3	5.7	5.6
2	5.5	22.0	4.4	15.5	8.8	4.3	2.5	5.9	3.0	4.8	5.0	5.1
3	4.9	19.3	4.4	16.6	8.5	4.0	2.3	5.9	3.0	4.0	4.7	4.9
4	4.5	16.2	4.2	18.7	8.0	3.6	2.0	7.0	3.0	3.5	4.3	4.9
5	4.1	13.5	4.0	20.6	7.5	3.1	2.0	7.6	2.9	3.1	3.9	4.8
6	3.9	11.0	3.7	21.5	7.0	2.9	1.9	7.5	2.8	2.7	3.7	4.9
7	3.6	9.4	3.6	21.7	6.6	2.6	1.9	6.7	7.8	2.6	3.6	5.2
8	3.4	7.8	3.4	21.2	6.2	2.5	1.9	5.6	13.0	2.6	3.4	5.3
9	3.3	6.7	3.4	20.5	5.8	2.3	1.7	6.0	15.6	6.9	3.2	5.5
10	3.1	6.0	3.3	19.7	5.4	1.8	2.2	9.9	16.5	11.1	3.4	5.6
11	3.1	5.5	3.4	19.2	5.0	1.6	2.4	13.0	15.4	12.2	3.5	5.8
12	6.7	5.3	3.4	18.2	4.7	1.7	2.0	13.6	12.7	10.9	3.7	5.7
13	7.4	5.1	3.4	17.2	4.4	1.7	1.7	12.3	10.1	9.1	3.8	5.5
14	8.1	5.0	3.5	15.8	4.3	1.5	1.8	10.7	8.0	7.9	3.8	5.2
15	12.8	4.8	4.0	14.5	4.2	1.5	2.0	10.2	6.8	6.7	3.9	5.0
16	17.9	4.6	4.8	13.6	4.2	1.4	1.4	11.3	5.9	6.0	4.0	4.5
17	22.3	4.4	5.8	12.5	4.2	1.5	2.6	12.6	5.2	5.3	4.3	4.3
18	23.9	4.3	7.8	11.8	4.0	1.7	2.6	13.3	4.6	5.0	4.0	4.0
19	23.0	4.2	8.6	11.3	3.8	1.8	2.5	12.7	4.1	4.7	4.0	3.9
20	22.8	4.1	8.9	11.4	3.6	1.8	2.4	11.1	3.7	4.5	3.9	4.5
21	24.4	4.0	8.7	13.8	3.5	1.8	2.8	9.0	3.4	4.2	3.7	4.5
22	25.8	3.8	8.2	15.4	4.9	1.9	3.7	7.6	3.3	4.4	3.7	5.0
23	28.8	3.7	7.8	15.1	4.8	2.0	3.9	6.1	3.2	5.2	4.1	5.9
24	29.1	3.6	7.6	13.9	3.4	2.4	3.6	5.5	3.1	6.6	4.8	6.7
25	28.9	3.5	7.9	12.4	4.0	3.4	3.5	5.1	3.1	7.9	5.8	7.0
26	27.8	3.5	7.8	11.3	3.7	4.6	3.2	4.9	3.0	8.0	6.6	6.7
27	26.4	3.4	7.9	10.7	3.4	4.9	3.0	4.5	3.2	7.5	6.9	6.2
28	25.6	4.0	8.0	10.4	3.1	4.7	3.4	4.5	3.8	6.8	6.7	5.7
29	25.1	-----	10.3	9.9	3.0	4.1	4.0	3.9	4.4	6.7	6.5	5.5
30	24.8	-----	11.6	9.4	3.0	3.6	4.6	3.7	5.1	6.2	6.0	5.3
31	24.3	-----	13.6	-----	3.3	-----	4.6	3.2	-----	6.0	-----	5.3

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1	5.3	8.4	25.3	38.9	12.3	4.0	2.2	3.1	0.7	0.3	0.1	1.4
2	5.2	7.7	26.1	36.7	11.2	3.8	2.2	3.1	0.6	0.3	0.1	1.4
3	5.2	7.9	25.9	35.8	9.9	3.7	2.5	3.5	0.5	0.3	0.0	1.4
4	5.1	8.5	25.5	34.4	9.0	3.7	2.6	3.6	0.4	0.2	0.0	1.3
5	5.5	11.6	26.6	32.8	8.7	3.6	2.5	3.7	0.8	0.2	0.0	1.2
6	6.7	17.0	25.9	31.1	7.8	3.5	2.5	3.5	1.0	0.2	0.0	1.2
7	10.6	21.9	25.6	29.3	7.2	3.5	2.4	3.0	0.9	0.2	0.0	1.0
8	16.4	24.9	23.8	29.4	6.9	3.6	2.2	2.6	1.3	0.2	0.1	0.9
9	20.2	26.7	22.8	25.5	6.6	3.8	2.2	2.3	1.6	0.1	0.1	0.9
10	22.4	27.2	22.9	24.5	7.0	3.8	1.9	2.1	1.4	0.1	0.1	0.9
11	23.4	27.4	23.4	23.8	8.0	3.6	1.7	1.9	1.4	0.0	0.1	1.1
12	23.1	27.8	23.9	23.4	8.9	3.5	1.6	1.9	1.3	0.0	0.3	1.7
13	23.1	28.1	24.5	22.7	10.4	3.3	1.6	1.8	1.1	0.0	0.4	5.5
14	23.9	28.5	24.1	21.4	11.1	3.1	1.8	1.7	1.0	0.1	0.5	7.3
15	22.6	28.9	23.4	19.6	11.1	3.0	1.7	1.7	0.9	0.1	0.4	8.1
16	20.0	29.4	25.2	15.4	10.6	3.2	1.6	1.6	0.7	0.2	0.4	9.0
17	17.5	29.6	27.6	15.3	9.7	3.6	1.6	1.5	0.7	0.5	0.4	9.2
18	15.3	29.4	29.3	13.4	9.2	4.3	1.5	1.4	0.7	0.7	0.3	8.6
19	13.7	27.4	31.3	12.3	8.9	4.8	1.5	1.5	0.7	0.7	0.3	7.9
20	12.5	22.2	32.9	11.3	8.6	5.0	1.4	1.4	0.8	0.7	0.2	7.9
21	11.5	20.6	34.4	10.4	8.2	5.7	1.3	1.4	0.8	0.6	0.2	8.7
22	10.6	18.0	35.8	9.7	7.5	5.1	1.3	1.5	0.7	0.5	0.2	9.0
23	9.0	16.8	36.6	9.1	6.8	4.7	1.3	1.8	0.5	0.4	0.2	8.3
24	9.9	16.3	37.3	9.0	6.1	4.2	1.8	1.8	0.5	0.3	0.3	8.1
25	10.6	15.4	37.9	10.0	5.8	3.8	2.6	1.5	0.4	0.3	0.4	9.0
26	10.4	16.0	38.2	11.6	5.4	3.5	2.7	1.3	0.3	0.2	0.4	10.1
27	11.3	19.3	38.5	13.8	5.0	3.1	2.9	1.2	0.2	0.1	0.5	10.3
28	11.5	23.0	38.7	14.2	4.8	2.9	3.0	1.1	0.1	0.1	0.7	10.2
29	11.1	-----	39.1	14.0	4.5	2.6	3.5	0.9	0.1	0.1	1.0	9.4
30	10.2	-----	39.5	13.3	4.3	2.5	3.6	0.9	0.2	0.1	1.3	8.5
31	9.4	-----	39.7	-----	4.1	-----	3.4	0.7	-----	0.1	-----	7.6

DAILY RIVER STAGES.

Ohio River system (Tennessee River branch)—Clinch River, Speers Ferry, Va.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.6	-0.4	-0.6	¹ 23.0								5.4
2	2.0	-0.1	-0.4	17.0								3.2
3	1.0	1.1	-0.5	7.0								2.2
4	0.4	0.8	-0.6	4.0								1.5
5	0.1	1.8	-0.8	2.8								1.2
6	-0.2	1.0	-0.6	2.0								1.1
7	-0.4	2.4	-0.2	1.6								1.0
8	-0.5	2.8	0.2									1.1
9	-0.6	3.2	0.1									1.3
10	-0.8	3.0	-0.2									3.0
11	-0.9	2.6	-0.4									2.5
12	-0.9	1.6	0.0									1.9
13	-1.0	1.8	-0.2									1.6
14	-0.9	3.5	-0.4									1.4
15	-0.8	2.6	-0.2									1.5
16	-0.9	1.7	3.4									2.4
17	-1.0	1.0	14.0									2.6
18	-0.9	0.7	6.5									2.0
19	-0.9	0.5	4.6									1.6
20	-0.8	0.2	5.0									1.3
21	-0.9	0.0	3.8									1.2
22	-0.8	-0.2	2.8									1.2
23	-0.6	-0.3	1.6									1.1
24	-0.2	-0.4	1.0									1.0
25	0.0	-0.5	0.7									0.8
26	-0.2	-0.5	0.4									0.5
27	-0.4	-0.6	0.2									0.4
28	-0.6	-0.4	0.1									0.2
29	-0.6	-0.5	1.0									0.5
30	-0.8		15.0									0.4
31	-0.8		20.0									0.4

1897.

1	0.3	0.2	2.2				0.5	0.6	0.1	-0.7	-0.5	-0.7
2	0.4	1.0	2.0				0.6	0.5	0.2	-0.7	-0.5	-0.6
3	0.4	1.4	2.3				0.8	0.2	0.1	-0.6	-0.6	-0.6
4	0.5	1.2	3.0				0.4	0.2	0.0	-0.7	-0.6	-0.4
5	0.4	1.2	1.6				0.2	0.1	0.0	-0.7	-0.7	-0.2
6	0.3	1.8	3.3				0.2	0.4	-0.2	-0.6	-0.7	-0.1
7	0.3	7.5	4.0				0.8	2.0	-0.4	-0.6	-0.6	-0.1
8	0.2	5.4	3.4				0.8	1.2	-0.4	-0.7	-0.6	-0.2
9	0.2	6.6	3.0				0.9	0.7	-0.3	-0.7	-0.5	-0.2
10	0.3	3.0	14.6				1.0	0.5	-0.4	-0.8	-0.5	-0.3
11	0.3	2.4	12.5				0.8	0.4	-0.5	-0.7	-0.6	-0.2
12	0.2	3.1	6.6				0.5	0.3	-0.5	-0.6	-0.6	-0.3
13	0.2	4.1	6.6				0.5	0.2	-0.6	-0.6	-0.7	-0.4
14	0.6	3.7	9.5				0.4	0.1	-0.6	-0.7	-0.7	-0.2
15	2.0	3.0	11.0				0.3	0.1	-0.4	-0.8	-0.6	-0.2
16	1.8	2.4	6.0				0.3	0.3	-0.5	-0.8	-0.8	-0.1
17	1.3	2.0	4.2				0.4	0.4	-0.6	-0.8	-0.8	-0.2
18	2.1	1.6	3.5				0.3	0.2	-0.6	-0.7	-0.7	-0.1
19	1.6	2.0	5.5				0.2	0.2	-0.6	-0.6	-0.7	-0.3
20	1.3	1.8	10.2				0.6	0.1	-0.6	-0.6	-0.8	-0.1
21	1.5	10.0	7.4				3.5	-0.2	-0.6	-0.7	-0.8	0.9
22	1.7	21.9	4.3				7.4	0.0	-0.7	-0.7	-0.7	1.0
23	1.4	19.2	3.2				3.2	0.3	-0.6	-0.6	-0.7	1.5
24	1.1	13.9	2.6				2.7	0.1	-0.6	-0.7	-0.7	1.2
25	0.9	6.4	2.0				2.0	0.1	-0.6	-0.6	-0.8	0.9
26	0.6	4.3	1.8				1.6	0.3	-0.7	-0.6	-0.8	0.8
27	0.4	3.0	1.4				1.3	0.2	-0.6	-0.6	-0.7	0.7
28	0.2	2.6	1.3				1.1	0.1	-0.7	-0.7	-0.7	0.5
29	0.2		1.2				0.9	0.0	-0.6	-0.6	-0.6	0.5
30	0.3		1.0				0.9	-0.2	-0.6	-0.6	-0.7	0.3
31	0.2		1.0				0.8	0.0		-0.6		0.4

¹ 23.2 during day.

DAILY RIVER STAGES.

361

Ohio River system (Tennessee River branch)—Clinch River, Speers Ferry, Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.4	1.2	0.4	5.6	0.4	1.0	0.4	1.3	0.4	-0.5	0.1	0.3
2	0.3	1.0	0.6	3.7	0.3	0.8	0.4	0.9	0.3	-0.6	-0.2	0.2
3	0.2	0.8	1.0	2.6	0.3	0.5	0.3	0.8	0.5	-0.5	-0.2	0.2
4	0.2	0.6	0.9	2.2	0.4	0.5	0.4	1.0	0.8	-0.5	-0.3	0.3
5	0.3	0.5	0.7	2.0	0.3	0.4	0.5	6.2	0.9	-0.1	-0.4	0.4
6	0.3	0.5	0.5	2.6	0.3	0.3	0.6	5.2	0.8	-0.1	0.0	0.3
7	0.4	0.4	0.4	2.2	0.4	0.3	2.0	2.5	0.7	-0.2	0.3	0.3
8	0.5	0.4	0.4	1.8	0.9	0.4	1.4	1.6	0.5	0.1	0.2	0.2
9	0.5	0.3	0.3	1.4	1.2	0.3	1.0	1.0	0.4	0.0	0.1	0.4
10	0.6	0.3	0.3	1.2	0.9	0.3	0.8	8.9	0.3	-0.2	0.1	0.3
11	0.9	0.2	0.2	1.7	0.7	0.5	1.1	10.8	0.3	-0.2	0.2	0.3
12	2.8	0.3	0.3	1.8	0.6	0.4	0.8	6.2	0.2	-0.3	0.3	0.2
13	3.1	0.3	0.3	1.6	0.5	0.3	0.6	4.9	0.2	-0.3	0.2	0.2
14	2.6	0.4	0.4	1.5	0.5	0.4	0.6	2.9	0.2	-0.4	0.1	0.3
15	2.2	0.3	0.5	2.4	0.6	0.4	0.5	2.0	0.1	-0.4	0.1	0.2
16	3.6	0.3	0.4	2.9	0.8	0.3	0.6	1.2	-0.2	-0.5	0.2	0.2
17	2.5	0.2	0.5	2.6	0.9	1.8	0.6	0.9	-0.3	-0.4	0.1	0.3
18	1.8	0.3	2.4	1.9	0.8	3.2	0.5	0.8	-0.3	-0.1	0.1	0.4
19	1.0	0.2	1.5	1.6	0.8	5.9	0.8	0.7	-0.4	0.0	2.0	0.3
20	1.7	0.4	1.3	1.4	0.7	4.6	0.9	1.0	-0.4	0.0	2.2	0.4
21	2.0	1.0	1.0	1.3	0.6	3.5	1.5	0.9	-0.5	-0.2	1.8	0.4
22	1.6	1.8	0.7	1.1	0.6	2.0	1.1	0.8	-0.4	0.0	1.1	0.3
23	2.1	1.6	0.6	0.9	2.9	1.6	1.7	0.6	-0.1	2.8	1.0	0.6
24	2.8	1.0	0.5	0.8	6.6	1.0	1.4	0.5	0.0	2.0	0.8	0.5
25	2.2	0.6	1.0	0.7	3.8	0.8	0.9	0.4	0.0	1.4	0.7	1.5
26	5.2	0.5	0.8	0.7	2.4	0.7	0.4	2.1	-0.2	0.7	0.6	1.4
27	3.3	0.5	0.8	0.6	1.5	0.6	4.2	1.6	-0.3	0.6	0.6	1.2
28	2.6	0.4	0.6	0.5	1.3	0.4	5.0	0.9	-0.4	0.5	0.4	0.9
29	1.8	.....	1.7	0.5	1.1	0.6	3.1	0.5	-0.4	0.4	0.4	0.8
30	1.6	.....	7.9	0.4	1.0	0.5	2.2	0.5	-0.5	0.4	0.3	0.7
31	1.5	.....	7.5	.....	1.2	.....	2.4	0.4	.....	0.3	.....	0.9

1899.

1	1.7	0.3	3.1	3.4	1.4	0.7	0.6	1.2	-0.6	-0.5	-0.1	-0.3
2	2.1	0.3	2.4	2.8	1.2	1.0	0.5	0.8	-0.5	-0.6	-0.2	0.0
3	1.6	0.4	2.5	2.2	1.0	0.9	0.3	0.6	-0.4	-0.6	-0.1	-0.2
4	1.3	14.4	3.8	2.0	0.8	0.8	0.3	0.5	-0.5	-0.7	-0.1	-0.2
5	1.1	14.0	15.9	2.8	1.0	0.6	0.5	0.3	-0.6	-0.6	0.0	-0.4
6	4.4	16.0	11.6	2.4	1.4	0.5	0.5	0.2	-0.6	-0.6	-0.1	-0.4
7	8.7	13.4	5.9	2.0	3.3	0.4	0.4	0.4	-0.5	-0.7	0.0	-0.5
8	6.2	10.3	3.8	2.2	5.8	0.4	0.3	0.3	-0.4	-0.4	0.0	-0.6
9	3.4	5.4	2.6	2.4	4.8	0.2	0.2	0.2	-0.1	-0.2	-0.1	-0.6
10	2.4	3.2	2.0	2.6	4.0	0.2	0.4	0.2	-0.3	-0.4	-0.1	-0.7
11	1.9	2.2	2.2	2.4	4.1	0.4	0.4	0.3	0.0	-0.4	-0.2	-0.5
12	2.2	1.5	1.9	2.0	6.0	0.8	0.3	0.4	-0.1	-0.5	-0.2	0.8
13	2.3	1.2	1.7	1.8	5.8	1.5	0.2	0.6	-0.2	-0.6	0.0	1.0
14	1.8	0.9	1.5	1.7	6.7	4.5	0.1	0.5	-0.4	-0.6	-0.1	0.9
15	2.0	0.8	2.4	1.7	4.0	3.4	0.1	0.3	-0.4	-0.7	-0.3	0.6
16	2.1	0.7	4.4	1.5	3.1	2.2	0.0	0.2	-0.5	-0.7	-0.4	0.4
17	1.8	0.9	3.5	1.4	2.3	1.4	0.1	0.2	-0.5	-0.6	-0.5	0.4
18	1.5	1.3	2.6	1.3	1.8	1.1	0.3	0.1	-0.6	-0.4	-0.5	0.2
19	1.4	3.0	14.5	1.3	1.6	0.9	1.1	0.1	-0.2	-0.5	-0.6	0.3
20	1.3	2.8	12.4	1.1	1.2	0.8	0.8	-0.1	-0.1	-0.6	-0.6	0.6
21	1.1	3.1	6.3	1.0	1.0	0.7	0.6	-0.2	-0.3	-0.7	-0.5	0.5
22	0.9	3.4	4.3	0.8	0.9	0.7	0.4	-0.2	-0.4	-0.7	-0.4	0.2
23	0.7	3.0	3.2	0.7	0.6	0.5	0.3	-0.4	-0.4	-0.6	-0.4	0.3
24	0.7	2.4	2.6	0.8	0.8	0.4	0.2	-0.5	-0.5	-0.7	-0.6	2.0
25	0.8	2.1	2.4	1.0	0.7	0.4	0.2	-0.5	-0.5	-0.7	-0.6	2.2
26	0.7	2.3	2.2	1.9	0.7	0.6	1.2	-0.6	-0.2	-0.8	-0.7	1.8
27	0.6	4.2	2.1	3.2	0.6	0.5	1.5	-0.6	-0.4	-0.8	-0.5	1.2
28	0.6	4.9	3.9	2.8	0.5	0.4	0.6	-0.5	-0.5	-0.7	-0.4	1.0
29	0.5	.....	13.6	1.9	0.4	0.6	0.5	-0.5	-0.3	-0.4	-0.4	0.9
30	0.4	.....	9.5	1.8	0.8	0.8	0.5	-0.4	-0.4	-0.2	-0.5	0.6
31	0.4	.....	5.0	.....	0.7	.....	0.4	-0.5	.....	-0.2	.....	0.6

¹5.8 at 2.30 p. m.²16.4 at 3 p. m.

DAILY RIVER STAGES.

Ohio River system (Tennessee River branch)—Clinch River, Clinton, Tenn.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.4	5.6	4.5	34.5	.....	.....	.....	.....	.....	.....	.....	17.0
2	7.2	7.3	4.2	37.0	.....	.....	.....	.....	.....	.....	.....	14.0
3	8.0	9.5	4.0	36.0	.....	.....	.....	.....	.....	.....	.....	11.0
4	7.9	9.5	4.0	23.0	.....	.....	.....	.....	.....	.....	.....	9.0
5	6.4	8.5	4.0	15.0	.....	.....	.....	.....	.....	.....	.....	7.5
6	5.6	9.0	3.8	12.4	.....	.....	.....	.....	.....	.....	.....	7.0
7	5.4	11.0	4.0	9.8	.....	.....	.....	.....	.....	.....	.....	6.3
8	5.0	10.8	5.2	.....	.....	.....	.....	.....	.....	.....	.....	6.0
9	4.8	11.0	5.5	.....	.....	.....	.....	.....	.....	.....	.....	5.6
10	4.6	10.8	6.0	.....	.....	.....	.....	.....	.....	.....	.....	5.8
11	4.3	10.4	6.0	.....	.....	.....	.....	.....	.....	.....	.....	6.0
12	4.0	10.0	5.8	.....	.....	.....	.....	.....	.....	.....	.....	7.0
13	3.9	9.0	5.6	.....	.....	.....	.....	.....	.....	.....	.....	7.3
14	3.5	11.0	5.4	.....	.....	.....	.....	.....	.....	.....	.....	7.0
15	3.4	13.0	5.3	.....	.....	.....	.....	.....	.....	.....	.....	6.0
16	3.2	14.4	7.9	.....	.....	.....	.....	.....	.....	.....	.....	5.8
17	3.2	11.0	17.6	.....	.....	.....	.....	.....	.....	.....	.....	5.5
18	3.1	9.6	24.5	.....	.....	.....	.....	.....	.....	.....	.....	7.0
19	3.0	8.0	19.6	.....	.....	.....	.....	.....	.....	.....	.....	6.8
20	2.8	7.4	14.9	.....	.....	.....	.....	.....	.....	.....	.....	6.4
21	2.7	6.5	13.5	.....	.....	.....	.....	.....	.....	.....	.....	6.0
22	2.4	6.0	13.0	.....	.....	.....	.....	.....	.....	.....	.....	5.8
23	2.6	5.5	11.4	.....	.....	.....	.....	.....	.....	.....	.....	5.6
24	4.0	5.2	10.0	.....	.....	.....	.....	.....	.....	.....	.....	5.4
25	5.5	5.1	9.5	.....	.....	.....	.....	.....	.....	.....	.....	5.0
26	6.0	5.0	9.0	.....	.....	.....	.....	.....	.....	.....	.....	4.5
27	6.4	5.0	8.5	.....	.....	.....	.....	.....	.....	.....	.....	4.0
28	6.0	4.9	8.0	.....	.....	.....	.....	.....	.....	.....	.....	3.8
29	5.6	4.6	7.5	.....	.....	.....	.....	.....	.....	.....	.....	3.4
30	5.4	.....	10.8	.....	.....	.....	.....	.....	.....	.....	.....	3.0
31	5.2	.....	23.4	.....	.....	.....	.....	.....	.....	.....	.....	3.0

1897.

1	3.0	5.4	10.0	.....	.....	.....	4.5	5.0	2.8	2.0	2.4	2.0
2	3.3	6.0	9.0	.....	.....	.....	4.0	4.8	2.7	2.0	2.5	2.0
3	3.0	7.0	8.0	.....	.....	.....	3.8	4.6	3.0	1.8	2.7	2.2
4	3.1	7.3	9.0	.....	.....	.....	3.6	4.0	3.4	1.8	2.7	2.8
5	3.5	7.0	9.8	.....	.....	.....	4.0	3.8	4.0	1.8	2.6	3.0
6	3.7	7.5	11.0	.....	.....	.....	5.0	3.5	4.2	1.8	2.6	3.5
7	3.5	11.0	13.0	.....	.....	.....	7.0	3.7	4.0	1.8	2.4	3.8
8	3.3	13.0	13.5	.....	.....	.....	5.0	5.0	4.0	1.8	2.4	3.9
9	3.0	15.0	13.0	.....	.....	.....	4.3	6.0	3.8	1.8	2.8	3.8
10	3.0	12.0	18.0	.....	.....	.....	4.0	6.8	3.6	1.8	3.0	3.5
11	3.0	10.5	27.5	.....	.....	.....	5.4	7.0	3.5	1.8	3.0	3.0
12	3.3	10.0	28.8	.....	.....	.....	5.6	7.2	3.5	2.0	3.0	3.0
13	3.5	8.7	21.0	.....	.....	.....	4.6	7.1	3.3	2.0	3.1	3.0
14	7.8	9.3	21.0	.....	.....	.....	4.2	6.5	3.2	2.0	3.1	3.3
15	9.0	11.5	25.0	.....	.....	.....	4.0	6.4	3.0	2.1	3.1	3.5
16	8.3	9.0	25.0	.....	.....	.....	4.5	6.0	2.8	2.1	3.2	3.4
17	9.3	6.0	18.0	.....	.....	.....	6.5	5.8	2.8	2.0	3.2	3.2
18	9.0	6.0	14.5	.....	.....	.....	5.4	5.6	3.0	2.0	3.2	3.2
19	8.8	7.4	14.5	.....	.....	.....	4.3	5.5	2.8	2.0	3.2	3.3
20	9.0	7.0	21.5	.....	.....	.....	5.0	5.3	2.7	2.0	3.1	3.5
21	8.5	9.0	24.5	.....	.....	.....	5.3	5.0	2.6	2.2	3.1	4.0
22	8.0	23.0	20.6	.....	.....	.....	5.8	4.8	2.4	2.3	3.0	6.0
23	7.5	37.5	15.4	.....	.....	.....	12.5	4.6	2.3	2.3	3.0	7.0
24	7.3	36.0	13.0	.....	.....	.....	12.0	4.5	2.3	2.3	2.8	6.7
25	7.0	28.5	11.4	.....	.....	.....	8.5	4.2	2.3	2.4	2.8	6.3
26	6.5	18.0	10.0	.....	.....	.....	7.0	4.1	2.2	2.4	2.6	5.5
27	6.3	13.5	8.5	.....	.....	.....	6.5	3.5	2.1	2.4	2.6	5.0
28	6.0	11.5	8.0	.....	.....	.....	6.0	3.3	2.0	2.3	2.5	4.5
29	5.5	.....	7.8	.....	.....	.....	5.4	3.1	2.0	2.3	2.4	4.3
30	5.0	.....	7.4	.....	.....	.....	5.0	3.0	2.0	2.3	2.2	4.5
31	4.8	.....	7.0	.....	.....	.....	4.8	2.8	.....	2.3	.....	4.4

DAILY RIVER STAGES.

363

Ohio River system (Tennessee River branch)—Clinch River, Clinton, Tenn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.2	7.0	4.9	16.0	4.6	5.0	4.0	10.0	3.8	3.4	3.8	5.0
2	4.0	6.5	4.8	14.0	4.4	5.5	4.4	8.0	4.0	3.0	3.7	5.0
3	4.0	6.0	4.6	11.5	4.1	5.3	4.5	7.0	7.0	2.6	3.5	4.8
4	3.8	5.5	4.5	10.0	4.0	5.0	4.6	6.0	6.0	2.4	3.5	6.0
5	3.5	5.0	5.2	9.0	4.0	4.5	4.9	7.0	6.5	2.8	3.7	7.0
6	3.4	4.5	5.2	8.8	3.8	4.3	5.0	12.0	5.5	3.5	4.0	6.7
7	4.6	4.4	5.6	9.0	3.8	4.0	4.5	15.4	6.0	3.4	5.0	7.0
8	4.8	4.3	5.0	8.7	4.6	4.8	5.0	10.5	5.4	3.5	5.5	7.1
9	4.9	4.3	5.0	8.4	5.0	4.8	5.4	8.0	4.8	4.8	5.4	6.5
10	4.6	4.2	4.8	8.0	7.0	4.3	5.9	8.5	4.0	5.5	5.4	6.0
11	5.0	4.2	4.5	7.5	6.5	3.8	4.7	12.5	4.0	5.4	6.0	5.5
12	11.0	4.1	4.3	8.4	6.3	3.7	4.6	21.0	3.8	5.0	5.8	5.2
13	11.3	4.1	4.1	9.0	5.8	3.6	4.6	18.0	3.7	4.6	5.5	5.0
14	11.0	4.5	4.0	11.0	5.6	3.6	4.2	16.0	3.5	4.5	5.5	4.5
15	13.0	5.0	4.2	12.0	5.0	3.4	4.0	11.0	3.5	4.3	5.4	4.3
16	12.5	5.0	5.0	10.0	4.8	3.6	4.0	9.0	3.5	4.0	5.0	4.2
17	12.2	4.8	5.1	9.5	4.5	3.8	3.8	8.0	3.5	4.0	4.8	4.0
18	12.0	4.6	5.2	9.4	4.3	4.0	4.0	7.0	3.4	4.5	4.8	4.0
19	10.0	4.5	5.6	9.2	4.2	5.2	4.0	6.0	3.3	6.0	5.0	4.2
20	10.5	4.5	8.0	9.0	4.5	10.0	3.8	6.4	3.1	5.8	6.5	6.0
21	11.0	4.3	7.5	8.4	4.6	11.5	4.8	5.5	2.8	5.6	8.5	6.4
22	10.0	4.2	7.0	8.3	5.0	10.5	5.2	5.2	3.0	6.0	8.7	6.2
23	10.8	5.0	6.0	8.5	4.8	9.0	5.6	5.0	3.3	5.5	7.5	6.4
24	11.5	7.0	6.8	7.0	6.8	7.5	5.4	4.8	3.5	5.2	7.0	6.2
25	12.0	6.5	5.5	6.5	9.0	5.5	5.2	4.5	3.7	7.0	6.4	6.2
26	14.0	5.0	5.0	6.0	12.0	5.0	6.0	4.8	4.0	6.5	6.0	6.0
27	14.5	5.2	5.4	5.5	9.0	4.6	6.6	4.0	3.8	5.5	5.4	6.4
28	13.5	5.0	5.8	5.3	7.5	4.0	6.2	5.0	3.8	5.0	5.0	6.0
29	11.0	.....	6.0	5.0	7.0	4.0	11.0	5.5	3.7	4.8	5.0	5.8
30	9.0	.....	7.0	4.8	6.0	3.7	12.5	4.8	3.7	4.5	5.4	5.6
31	8.0	.....	14.0	.....	5.5	.....	11.0	4.0	.....	4.0	.....	5.4

1899.

1	6.5	5.4	15.4	16.0	8.5	5.2	3.7	4.5	3.0	3.4	2.0	1.9
2	7.5	5.3	13.0	12.5	7.0	5.4	3.6	4.3	3.0	3.3	2.2	2.3
3	10.0	5.6	13.0	11.0	6.5	5.5	3.6	4.0	2.9	2.8	2.6	2.4
4	9.0	10.4	14.8	11.0	6.0	5.0	3.5	4.0	2.8	2.6	2.6	2.6
5	8.0	23.5	18.5	12.3	6.4	4.8	3.4	4.2	2.8	2.4	2.4	2.6
6	11.5	28.0	25.5	12.0	7.0	4.8	3.7	5.0	2.8	2.4	2.3	2.7
7	19.0	28.0	26.0	11.0	8.0	4.0	3.5	4.8	2.6	2.0	2.3	2.6
8	21.5	24.5	17.0	12.8	10.0	3.8	3.4	4.8	2.5	2.0	2.2	2.5
9	18.5	21.6	13.0	11.0	15.0	3.7	3.4	4.6	2.5	2.3	2.3	2.2
10	13.4	15.0	11.0	10.5	14.7	3.7	3.3	4.4	2.5	2.4	2.4	2.1
11	11.0	12.5	10.0	10.0	12.5	3.5	3.3	4.3	2.8	2.4	2.4	2.0
12	10.5	10.5	9.0	9.4	11.5	3.4	3.8	4.3	3.5	2.6	2.2	2.6
13	10.0	9.6	8.5	9.2	13.5	5.0	3.7	4.6	3.4	2.8	2.0	3.1
14	9.6	11.0	8.2	9.0	12.5	5.5	3.7	4.8	3.4	2.8	1.9	2.8
15	9.2	10.5	12.0	8.5	12.8	6.0	3.5	4.6	3.6	2.6	1.8	3.0
16	9.0	10.0	14.8	8.3	11.4	9.5	3.4	4.5	3.5	2.2	1.8	2.9
17	8.8	11.0	14.5	7.5	10.0	7.5	3.3	4.2	3.4	2.0	1.8	2.9
18	8.7	8.0	13.5	7.0	8.7	6.0	3.3	4.2	3.1	1.9	1.8	2.6
19	8.5	9.0	16.5	6.8	8.0	5.5	3.5	4.0	3.0	1.9	1.6	2.7
20	8.0	10.0	23.5	6.5	7.0	5.2	3.6	3.9	2.8	2.0	1.5	2.8
21	7.5	10.5	26.5	6.0	6.5	5.0	3.5	3.7	2.8	1.9	1.4	2.8
22	7.0	10.6	18.0	5.8	6.0	4.0	3.7	3.5	2.6	1.9	1.4	3.0
23	6.6	10.5	14.0	5.4	5.8	3.8	5.0	3.5	2.4	1.9	1.7	3.1
24	6.6	10.1	12.0	5.2	5.6	3.5	4.5	3.5	2.2	1.8	1.8	5.0
25	7.0	10.0	11.0	8.0	5.2	3.5	4.5	3.4	2.0	1.8	1.9	5.5
26	6.8	9.5	10.0	9.6	5.0	4.0	4.8	3.3	2.0	1.8	1.9	5.5
27	6.5	17.0	11.0	9.0	5.0	4.5	4.9	3.6	2.2	1.8	1.8	7.0
28	6.3	15.5	12.3	8.5	4.8	4.0	5.2	3.5	2.3	1.8	1.8	6.5
29	6.0	.....	19.0	9.0	4.6	3.8	5.5	3.5	2.4	1.9	2.0	5.5
30	5.9	.....	26.0	8.8	4.6	3.8	5.3	3.3	2.6	2.0	1.9	5.4
31	5.6	.....	24.0	.....	5.0	.....	5.0	3.0	.....	2.2	.....	Frozen.

DAILY RIVER STAGES.

*Ohio River system (Tennessee River branch)—Clinch River, Kingston, Tenn.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.2	1.5	1.5									9.7
2	2.0	5.8	1.5									10.0
3	2.0	7.0	1.5									8.3
4	2.0	5.6	1.4									3.8
5	2.0	4.0	1.3									2.9
6	2.0	3.8	1.3									2.4
7	2.0	7.3	1.3									2.2
8	1.9	7.5	1.5									2.0
9	1.8	7.3	1.7									2.0
10	1.8	7.7	1.6									1.8
11	1.8	6.9	1.6									1.7
12	1.7	6.0	1.8									1.6
13	1.6	5.2	1.8									1.4
14	1.6	7.9	1.8									1.3
15	1.6	8.6	1.8									1.3
16	1.6	8.0	2.8									1.2
17	1.6	7.3	8.1									1.2
18	1.4	5.4	9.8									1.1
19	1.3	4.2	11.5									2.7
20	1.2	3.4	9.2									2.9
21	1.2	2.8	7.8									2.8
22	1.2	2.4	6.3									2.6
23	1.2	2.2	5.2									2.5
24	2.5	2.0	4.5									2.4
25	4.0	1.8	4.0									2.4
26	4.4	1.8	3.7									2.3
27	3.8	1.7	3.5									2.0
28	3.0	1.7	3.3									1.8
29	2.5	1.6	3.0									1.7
30	2.2		4.0									1.4
31	1.8		10.8									1.2

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.0	1.3	5.8				2.0	2.0	0.5	0.0	0.0	0.0
2	0.8	4.8	5.0				1.9	1.9	0.5	0.0	0.0	0.0
3	0.6	5.8	4.2				1.8	1.8	0.4	0.0	0.0	0.0
4	0.3	5.1	5.6				1.6	1.5	0.4	0.0	0.1	0.4
5	1.4	4.4	5.9				1.6	1.4	0.4	0.0	0.0	1.0
6	1.6	4.7	6.7				1.5	1.8	0.4	0.0	0.0	1.5
7	1.3	6.8	16.5				1.7	1.7	0.4	0.0	0.0	1.2
8	1.2	9.4	14.4				1.8	1.7	0.2	0.0	0.0	0.8
9	1.0	10.6	12.0				1.7	2.9	0.1	0.0	0.0	0.6
10	0.8	9.5	12.2				1.6	2.8	0.1	0.0	0.0	0.5
11	0.7	6.4	19.8				1.5		0.0	0.0	0.0	0.4
12	0.6	5.7	23.3				1.5	2.0	0.0	0.0	0.0	0.3
13	0.5	6.2	23.8				1.5	1.5	0.0	0.0	0.0	0.2
14	4.5	6.7	20.0				1.4	1.3	0.0	0.0	0.0	0.2
15	5.3	6.7	21.9				1.3	1.0	0.0	0.0	0.0	0.3
16	4.7	6.3	19.7				1.3	1.0	0.0	0.0	0.0	0.5
17	3.8	5.1	18.4				3.8	1.0	0.0	0.0	0.0	0.6
18	4.5	4.5	14.0				3.1	1.3	0.0	0.0	0.0	0.7
19	4.0	4.0	13.5				2.5	1.0	0.0	0.0	0.0	0.8
20	3.7	3.6	20.8				2.8	1.2	0.0	0.0	0.0	1.0
21	3.4	5.6	20.7				2.9	1.0	0.0	0.0	0.0	2.5
22	3.4	8.3	17.0				3.0	1.3	0.0	0.0	0.0	5.0
23	3.0	18.7	13.0				3.8	1.6	0.0	0.0	0.0	4.9
24	2.9	27.0	11.0				4.6	1.8	0.0	0.0	0.0	4.1
25	2.8	26.2	8.5				5.2	1.0	0.0	0.0	0.0	3.2
26	2.6	19.0	7.0				7.2	0.9	0.0	0.0	0.0	2.1
27	2.4	9.7	6.3				4.5	0.8	0.0	0.0	0.0	2.1
28	1.8	7.4	5.5				3.2	0.7	0.0	0.0	0.0	1.8
29	1.3		5.2				2.8	0.5	0.0	0.0	0.0	1.5
30	1.3		4.7				2.3	0.4	0.0	0.0	0.0	1.4
31	1.3		4.5				2.0	0.5	0.0	0.0	0.0	1.2

DAILY RIVER STAGES.

365

Ohio River system (Tennessee River branch)—Clinch River, Kingston, Tenn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.1	3.7	1.2	12.2	2.8	1.4	1.0	5.0	1.5	1.1	2.0	2.5
2	1.1	3.3	1.2	10.5	2.6	1.3	1.0	3.7	1.4	1.0	2.0	2.6
3	1.0	2.9	1.3	7.0	2.4	1.3	1.0	2.9	7.3	1.0	1.8	2.4
4	1.0	2.4	1.2	6.1	2.2	1.3	1.0	2.2	13.0	1.5	1.8	2.8
5	0.8	2.0	1.2	5.0	2.0	1.0	0.9	3.9	10.1	1.9	1.6	3.0
6	0.6	2.0	1.2	4.8	1.7	0.8	0.7	10.5	9.0	6.5	1.9	3.2
7	0.9	2.0	1.2	5.1	1.7	0.7	0.6	7.4	6.0	5.4	2.5	3.0
8	1.2	2.0	1.2	4.9	1.7	0.4	0.4	6.7	5.2	5.0	2.2	2.7
9	1.2	1.9	1.2	4.8	1.8	0.3	0.8	5.0	5.0	4.5	2.1	2.6
10	1.2	1.8	1.1	4.6	1.8	0.3	1.4	4.5	4.0	4.5	2.0	2.5
11	1.4	1.7	1.1	4.9	2.2	0.4	1.7	6.0	3.0	3.7	2.8	2.3
12	8.1	1.7	1.0	5.5	2.2	0.4	1.8	9.8	2.9	3.0	2.8	2.0
13	9.5	1.8	1.0	6.1	1.9	0.4	1.8	11.1	2.9	3.0	2.5	2.0
14	8.9	1.7	1.1	5.2	1.8	0.2	1.6	10.5	2.5	2.8	2.1	1.5
15	7.8	1.7	1.2	5.5	1.7	0.2	1.5	8.1	2.2	2.4	2.1	1.3
16	8.2	1.6	2.0	5.2	1.6	0.2	1.8	5.9	1.4	2.0	2.0	1.3
17	6.8	1.6	2.3	5.0	1.6	0.3	1.4	4.2	1.2	2.0	2.3	1.0
18	5.8	1.4	2.7	5.0	1.6	0.6	1.3	3.2	1.1	2.0	2.4	1.1
19	5.0	1.3	2.9	4.8	1.6	3.0	1.3	3.2	1.0	2.4	2.5	1.2
20	7.8	1.4	3.3	4.1	1.6	3.2	1.2	3.2	1.0	6.0	3.0	1.8
21	8.4	1.4	3.1	4.0	1.6	3.3	1.1	3.0	0.9	6.4	3.3	2.0
22	7.1	1.3	3.0	3.3	1.5	3.3	1.1	3.0	0.9	6.4	3.5	2.5
23	8.0	1.3	3.0	3.0	1.5	3.2	1.1	2.4	1.3	5.0	3.6	2.4
24	7.1	1.3	3.0	3.0	1.4	2.9	1.2	2.2	2.5	4.5	3.6	2.4
25	6.6	1.3	2.6	3.0	1.4	2.4	1.4	1.9	3.0	4.0	3.6	2.4
26	9.9	1.3	2.4	2.8	1.6	2.3	1.4	1.9	3.2	3.9	3.6	2.7
27	10.1	1.2	2.3	3.2	3.8	2.2	1.5	1.8	2.5	4.0	3.3	2.8
28	9.2	1.2	2.1	3.5	2.9	2.4	1.6	1.8	2.0	3.8	2.0	2.8
29	7.1	-----	2.1	3.7	2.0	2.4	1.9	2.0	1.5	3.4	2.0	2.6
30	5.2	-----	5.9	3.8	1.9	1.3	3.0	2.0	1.3	2.5	2.2	4.5
31	4.5	-----	10.8	-----	1.8	-----	4.2	2.0	-----	2.4	-----	2.5

1899.

1	2.8	2.5	11.4	14.7	3.0	3.4	1.6	1.3	0.6	0.6	0.8	0.7
2	3.2	2.4	9.8	9.5	3.0	3.7	1.4	0.9	0.6	0.6	0.8	0.8
3	3.3	2.4	8.4	7.4	2.8	3.5	1.1	0.8	0.5	0.5	0.8	0.9
4	3.5	7.5	9.6	7.0	2.5	3.2	1.0	0.6	0.4	0.5	1.0	1.1
5	4.0	17.5	16.2	9.5	2.6	3.0	1.0	0.6	0.4	0.6	1.0	1.2
6	6.2	21.6	18.1	9.9	3.8	2.7	1.2	0.7	0.3	0.6	0.9	1.2
7	12.9	23.7	19.4	10.2	5.0	2.6	1.3	0.7	0.3	0.7	0.9	1.1
8	11.2	26.1	15.9	10.3	5.6	2.4	1.0	0.6	0.5	0.8	0.9	1.0
9	10.9	22.0	10.1	9.4	7.0	2.1	0.9	0.5	0.6	0.8	0.8	1.0
10	8.5	15.5	7.9	8.9	8.1	2.0	0.8	0.5	0.4	1.1	0.8	0.9
11	6.9	9.9	7.8	8.0	8.0	2.6	0.8	0.5	0.3	1.2	0.8	0.9
12	5.3	6.4	6.3	7.5	7.5	2.8	0.7	0.4	0.3	1.2	0.7	2.1
13	4.6	5.1	5.5	6.5	7.2	3.2	0.5	0.5	0.3	0.9	0.7	4.7
14	4.5	4.8	4.8	5.3	6.5	3.5	0.4	0.6	0.3	0.9	0.7	5.0
15	3.9	4.2	13.0	5.3	6.0	3.6	0.3	0.6	0.4	0.9	0.6	4.0
16	3.4	4.3	21.7	5.0	5.4	3.4	0.3	0.5	0.4	0.8	0.6	3.5
17	3.4	4.7	20.9	4.9	5.0	3.1	0.4	0.5	0.4	0.8	0.7	3.0
18	3.5	6.1	18.4	4.7	4.8	3.0	0.5	0.4	0.3	0.8	0.7	2.2
19	3.7	6.9	17.1	4.3	4.6	2.8	0.5	0.4	0.3	0.8	0.7	2.0
20	3.6	7.0	26.3	3.9	3.3	2.5	0.5	0.4	0.3	0.8	0.7	1.6
21	3.4	6.5	27.1	3.7	3.0	2.3	0.4	0.3	0.4	0.8	0.7	1.4
22	3.0	6.2	23.4	3.4	3.0	2.0	0.4	0.3	0.5	0.8	0.7	1.3
23	2.8	6.0	15.6	3.2	2.8	1.6	1.2	0.3	0.5	0.7	0.8	1.5
24	2.8	5.9	12.3	3.1	2.7	1.4	1.0	0.4	0.6	0.7	0.9	2.8
25	3.8	5.7	9.0	3.1	2.7	1.4	1.0	0.4	0.5	0.7	0.9	4.0
26	4.2	6.6	8.2	6.2	2.5	1.6	0.7	0.4	0.5	0.7	0.9	5.2
27	3.1	10.9	7.5	5.3	2.3	1.9	0.8	0.5	0.4	0.9	0.9	3.4
28	3.0	12.5	7.4	4.9	2.3	2.1	0.8	0.5	0.3	0.8	0.8	3.3
29	2.5	-----	13.7	4.5	2.2	1.9	0.7	0.4	0.3	0.8	0.8	3.0
30	2.2	-----	15.6	3.2	2.8	1.8	0.9	0.4	0.3	0.9	0.7	2.0
31	1.3	-----	15.8	-----	3.0	-----	1.2	0.4	-----	0.9	-----	2.4

1 Approximated.

DAILY RIVER STAGES.

*Ohio River system (Tennessee River branch)—Holston River, Strawberry Plains, Tenn.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.5	1.9	1.8	21.5								8.1
2	2.5	3.0	1.8	22.0								7.1
3	2.5	3.0	1.9	28.5								4.9
4	2.5	3.1	1.9	12.0								4.0
5	2.0	3.1	1.8	8.0								3.5
6	2.0	4.4	1.8	6.5								3.0
7	1.3	5.0	1.9	5.5								2.5
8	1.3	4.6	1.8									2.2
9	1.5	4.6	1.8									2.6
10	1.5	4.5	1.7									2.4
11	1.6	4.9	1.8									2.6
12	1.4	4.5	1.8									2.7
13	1.3	3.7	1.7									2.5
14	1.3	4.9	1.8									2.2
15	1.3	5.0	1.9									2.2
16	1.2	5.8	2.0									1.9
17	1.2	4.8	6.0									3.5
18	1.1	4.0	9.0									3.9
19	1.0	3.0	7.0									3.4
20	1.0	2.9	5.1									3.0
21	1.2	2.7	4.7									2.8
22	1.1	2.0	4.0									2.5
23	1.1	1.7	3.7									2.5
24	1.6	1.8	3.5									2.3
25	1.8	2.0	3.0									2.2
26	2.0	1.9	3.0									1.8
27	2.3	2.0	2.9									1.7
28	2.3	1.9	3.0									1.2
29	2.0	1.8	3.0									1.1
30	1.9		4.0									1.5
31	1.6		11.7									1.4

1897.

1	1.3	1.7	5.0									
2	1.2	2.1	4.5									
3	1.3	2.5	4.6									
4	1.3	3.1	4.7									
5	1.2	3.0	4.6									
6	1.3	2.8	5.0									
7	1.2	4.0	7.8									
8	1.4	10.2	7.7									
9	1.3	7.6	6.9									
10	1.0	5.8	11.9									
11	1.1	5.1	18.9									
12	1.0	4.8	19.6									
13	1.1	4.7	12.6									
14	1.7	6.7	12.8									
15	2.8	6.6	14.1									
16	2.7	5.0	12.1									
17	3.0	4.6	9.6									
18	3.1	4.0	8.0									
19	2.9	3.8	8.1									
20	3.0	3.6	12.6									
21	2.9	5.0	11.3									
22	3.2	16.0	9.0									
23	3.4	27.8	7.3									
24	3.1	24.6	6.6									
25	2.9	20.6	5.7									
26	2.7	9.0	5.2									
27	2.3	7.0	4.8									
28	2.0	6.0	4.4									
29	1.9		4.1									
30	1.8		4.0									
31	1.7		3.9									

DAILY RIVER STAGES.

367

Ohio River system (Tennessee River branch)—Hiwassee River, Charleston, Tenn.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	2.6	1.7	1.8	8.4	-----	-----	-----	-----	-----	-----	-----	6.2
2.....	2.0	2.9	1.7	14.7	-----	-----	-----	-----	-----	-----	-----	3.8
3.....	1.7	3.0	1.6	14.4	-----	-----	-----	-----	-----	-----	-----	2.7
4.....	1.6	3.0	1.5	15.8	-----	-----	-----	-----	-----	-----	-----	2.3
5.....	1.3	2.6	1.5	15.0	-----	-----	-----	-----	-----	-----	-----	2.0
6.....	1.0	4.2	1.5	8.5	-----	-----	-----	-----	-----	-----	-----	1.7
7.....	1.3	10.9	1.7	2.5	-----	-----	-----	-----	-----	-----	-----	1.6
8.....	1.4	6.2	1.6	-----	-----	-----	-----	-----	-----	-----	-----	1.5
9.....	1.5	6.6	1.5	-----	-----	-----	-----	-----	-----	-----	-----	1.6
10.....	1.5	6.0	1.4	-----	-----	-----	-----	-----	-----	-----	-----	2.0
11.....	1.3	4.5	1.4	-----	-----	-----	-----	-----	-----	-----	-----	1.8
12.....	1.2	3.6	1.7	-----	-----	-----	-----	-----	-----	-----	-----	1.5
13.....	1.1	3.0	1.7	-----	-----	-----	-----	-----	-----	-----	-----	1.4
14.....	1.1	4.9	1.5	-----	-----	-----	-----	-----	-----	-----	-----	1.4
15.....	1.0	5.2	1.4	-----	-----	-----	-----	-----	-----	-----	-----	1.4
16.....	1.0	4.0	1.5	-----	-----	-----	-----	-----	-----	-----	-----	1.5
17.....	1.0	3.4	3.6	-----	-----	-----	-----	-----	-----	-----	-----	1.4
18.....	1.3	2.9	2.9	-----	-----	-----	-----	-----	-----	-----	-----	1.3
19.....	1.3	2.7	2.3	-----	-----	-----	-----	-----	-----	-----	-----	1.3
20.....	1.2	2.5	3.3	-----	-----	-----	-----	-----	-----	-----	-----	1.4
21.....	1.1	2.4	3.2	-----	-----	-----	-----	-----	-----	-----	-----	1.2
22.....	1.1	2.1	2.6	-----	-----	-----	-----	-----	-----	-----	-----	1.2
23.....	1.8	2.1	2.4	-----	-----	-----	-----	-----	-----	-----	-----	1.1
24.....	6.0	2.1	2.5	-----	-----	-----	-----	-----	-----	-----	-----	1.1
25.....	6.2	2.0	2.5	-----	-----	-----	-----	-----	-----	-----	-----	1.0
26.....	3.8	1.9	2.3	-----	-----	-----	-----	-----	-----	-----	-----	1.0
27.....	2.9	1.8	2.1	-----	-----	-----	-----	-----	-----	-----	-----	0.9
28.....	2.4	1.7	2.0	-----	-----	-----	-----	-----	-----	-----	-----	0.9
29.....	2.0	1.8	1.9	-----	-----	-----	-----	-----	-----	-----	-----	0.9
30.....	1.9	-----	1.9	-----	-----	-----	-----	-----	-----	-----	-----	0.9
31.....	1.7	-----	2.4	-----	-----	-----	-----	-----	-----	-----	-----	1.0

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	1.0	2.0	2.7	-----	-----	-----	-----	-----	-----	-----	0.2	0.7
2.....	0.9	8.1	2.6	-----	-----	-----	-----	-----	-----	-----	0.9	0.5
3.....	0.9	7.0	2.6	-----	-----	-----	-----	-----	-----	-----	1.5	0.6
4.....	0.9	4.2	4.7	-----	-----	-----	-----	-----	-----	-----	1.0	1.6
5.....	1.0	3.3	3.7	-----	-----	-----	-----	-----	-----	-----	0.7	3.4
6.....	1.5	3.2	13.0	-----	-----	-----	-----	-----	-----	-----	0.6	3.1
7.....	1.1	5.0	19.0	-----	-----	-----	-----	-----	-----	-----	0.5	1.8
8.....	1.0	4.6	12.0	-----	-----	-----	-----	-----	-----	-----	0.4	1.3
9.....	1.0	4.1	8.0	-----	-----	-----	-----	-----	-----	-----	0.5	1.0
10.....	1.0	3.6	8.0	-----	-----	-----	-----	-----	-----	-----	0.5	0.9
11.....	0.9	3.1	11.3	-----	-----	-----	-----	-----	-----	-----	0.5	0.8
12.....	0.9	3.9	14.5	-----	-----	-----	-----	-----	-----	-----	0.4	0.8
13.....	0.9	4.1	23.0	-----	-----	-----	-----	-----	-----	-----	0.3	0.7
14.....	1.2	3.6	18.7	-----	-----	-----	-----	-----	-----	-----	0.3	1.4
15.....	2.3	3.0	18.8	-----	-----	-----	-----	-----	-----	-----	0.3	2.3
16.....	1.9	2.8	16.1	-----	-----	-----	-----	-----	-----	-----	0.3	1.9
17.....	1.6	2.5	17.0	-----	-----	-----	-----	-----	-----	-----	0.3	1.4
18.....	1.8	2.3	13.0	-----	-----	-----	-----	-----	-----	-----	0.3	1.2
19.....	2.6	2.2	15.0	-----	-----	-----	-----	-----	-----	-----	0.3	1.3
20.....	2.1	2.1	20.8	-----	-----	-----	-----	-----	-----	-----	0.3	2.7
21.....	3.2	2.6	17.0	-----	-----	-----	-----	-----	-----	-----	0.3	4.2
22.....	4.0	3.0	13.2	-----	-----	-----	-----	-----	-----	-----	0.2	8.3
23.....	2.9	6.8	11.0	-----	-----	-----	-----	-----	-----	-----	0.2	6.5
24.....	2.4	12.4	8.3	-----	-----	-----	-----	-----	-----	-----	0.3	3.8
25.....	2.1	11.4	6.7	-----	-----	-----	-----	-----	-----	-----	0.3	2.7
26.....	1.9	12.1	6.0	-----	-----	-----	-----	-----	-----	-----	0.2	2.3
27.....	1.8	8.6	5.3	-----	-----	-----	-----	-----	-----	-----	0.3	2.6
28.....	1.4	3.1	4.9	-----	-----	-----	-----	-----	-----	-----	0.5	2.2
29.....	1.2	-----	4.5	-----	-----	-----	-----	-----	-----	-----	0.6	1.9
30.....	1.0	-----	4.2	-----	-----	-----	-----	-----	-----	-----	0.6	1.7
31.....	1.4	-----	4.7	-----	-----	-----	-----	-----	-----	-----	-----	1.6

DAILY RIVER STAGES.

Ohio River system (Tennessee River branch)—Hwassee River, Charleston, Tenn.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.6	2.8	1.3	7.0							2.2	2.9
2	1.5	2.4	1.3	5.0							2.2	2.6
3	1.3	2.2	1.4	3.9							2.1	2.5
4	1.2	2.0	1.5	3.2							2.1	2.6
5	1.3	2.0	1.4	4.9							2.0	3.5
6	1.3	2.0	1.3	11.1							2.4	3.4
7	1.4	1.9	1.2	6.0							2.9	2.9
8	1.5	1.9	1.2	4.6							2.3	2.7
9	1.4	1.8	1.2	3.9							2.1	2.5
10	1.4	1.7	1.1	3.5							2.1	2.4
11	1.3	1.7	1.1	4.4							2.2	2.3
12	2.7	1.6	1.1	4.2							2.3	2.2
13	3.8	1.6	1.1	3.5							2.1	2.2
14	3.7	1.5	1.3	3.6							2.2	2.1
15	2.9	1.5	1.8	3.9							2.4	2.0
16	3.1	1.4	4.1	3.6							2.2	1.9
17	3.2	1.3	2.7	3.1							2.4	1.9
18	2.6	1.3	2.3	3.0							2.5	2.0
19	2.5	1.4	2.2	2.7							3.5	2.0
20	5.0	1.5	2.0	3.3							4.3	2.5
21	6.0	1.5	1.8	3.0							3.3	2.6
22	4.7	1.5	1.7	2.6							2.8	2.3
23	3.9	1.4	1.5	2.4							3.5	2.3
24	3.6	1.3	1.5	3.7							3.7	2.8
25	3.9	1.3	1.8	4.6							3.1	2.4
26	12.7	1.2	1.8	3.5							2.8	2.2
27	8.4	1.3	1.6	3.7							2.6	2.1
28	5.6	1.4	1.5	4.0							2.4	2.0
29	4.0		1.6	3.4							2.6	2.0
30	3.4		12.4	3.0							3.2	1.9
31	3.0		10.9									1.9

1899.

1	2.6	4.3	7.2	9.4							0.5	0.8
2	2.8	3.4	5.9	7.2							0.4	0.8
3	2.4	3.1	5.3	6.1							0.4	1.2
4	2.3	16.0	5.3	6.4							0.4	1.0
5	2.3	21.6	7.3	7.9							0.4	0.8
6	4.0	18.6	8.9	6.5							0.3	0.7
7	8.3	22.4	8.1	6.3							0.3	0.7
8	6.7	20.9	7.5	11.0							0.3	0.6
9	4.9	16.5	5.6	8.7							0.3	0.6
10	3.9	13.5	4.5	7.1							0.3	0.6
11	3.4	8.9	4.3	6.0							0.3	0.6
12	3.5	5.9	4.0	5.6							0.3	3.0
13	3.1	5.0	3.9	5.3							0.3	7.0
14	2.9	3.7	5.7	5.0							0.3	2.9
15	3.0	4.3	24.1	4.8							0.3	2.1
16	2.9	4.8	27.3	4.6							0.5	1.8
17	3.2	6.9	20.0	4.4							0.5	1.4
18	3.3	5.6	14.4	4.1							0.4	1.3
19	3.0	5.9	24.0	4.0							0.4	1.3
20	2.8	5.3	27.6	4.0							0.3	1.8
21	2.6	4.7	19.9	3.9							0.3	2.0
22	2.5	4.6	16.6	3.7							0.3	1.5
23	2.4	4.6	16.0	3.5							0.7	1.4
24	2.4	4.2	13.0	4.5							1.7	3.2
25	2.7	3.9	8.7	4.6							1.0	3.7
26	2.7	3.7	7.6	6.0							0.9	2.5
27	2.4	7.5	7.0	4.5							1.7	2.0
28	2.3	11.5	7.5	4.0							1.5	1.9
29	2.2		10.6	3.7							1.2	2.0
30	2.2		8.6	3.6							1.0	1.7
31	2.4		8.0									1.1

123.1 at 3 p. m.

DAILY RIVER STAGES.

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*Ohio River system—Wabash River, Terre Haute, Ind.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.5	7.0	4.0	5.4	3.0	3.3	1.7	16.9	4.3	2.8	1.0	3.7
2	5.0	6.3	4.0	5.3	2.8	3.0	1.5	17.1	3.5	4.4	0.9	3.1
3	Frozen.	6.2	4.0	5.0	2.7	3.8	1.2	16.7	3.1	9.5	0.8	2.8
4		7.3	3.8	4.7	3.0	3.6	1.0	15.9	2.8	10.6	0.8	2.5
5		8.8	3.5	3.7	2.7	2.8	1.7	13.7	2.7	10.0	1.5	2.3
6		9.2	3.3	3.3	2.5	2.3	1.0	10.3	2.4	8.8	2.4	2.2
7		9.0	3.1	2.7	2.3	2.0	0.8	8.0	2.2	7.2	2.8	2.2
8		8.5	3.2	2.5	2.1	1.7	1.5	7.3	2.0	5.9	3.1	2.1
9		8.1	6.5	2.3	2.0	1.8	1.2	10.0	1.8	5.0	4.1	2.1
10		6.7	7.7	2.3	1.5	2.2	0.9	11.3	1.5	4.2	4.1	2.2
11		6.1	7.3	2.3	1.3	3.0	0.7	11.1	1.4	3.8	4.0	2.2
12		5.8	6.8	2.3	1.1	3.3	0.6	10.0	1.3	3.4	4.7	2.3
13		4.7	6.3	2.2	1.1	3.5	0.5	9.7	1.2	3.0	4.3	2.5
14		4.8	5.8	2.2	0.8	3.3	0.5	11.5	1.1	2.7	4.3	2.9
15		4.7	5.0	2.2	0.7	3.0	0.3	11.4	1.0	2.4	4.9	2.9
16		4.5	4.5	2.1	0.7	3.0	0.5	10.2	0.9	2.0	4.6	2.9
17		4.3	4.0	2.0	0.5	3.0	0.2	9.1	0.9	2.0	4.0	3.5
18		4.3	3.7	1.7	0.3	2.3	0.1	9.0	0.9	1.8	3.6	3.5
19		4.2	3.5	1.5	1.0	1.8	0.0	7.8	1.2	1.7	2.9	5.0
20		Frozen.	3.2	1.3	4.5	1.5	1.0	6.5	1.6	1.6	2.8	5.1
21			3.4	1.3	3.3	1.7	9.2	5.4	1.2	1.5	2.5	4.7
22			3.2	1.2	2.8	2.5	6.0	4.7	1.2	1.4	2.4	4.3
23			3.8	1.8	4.5	2.0	4.0	4.3	1.1	1.4	2.3	4.0
24			4.2	4.2	3.6	1.8	4.8	4.0	1.1	1.3	2.2	3.5
25		3.1	5.5	5.0	3.0	1.7	7.5	9.4	1.1	1.2	2.1	Frozen.
26		4.2	6.5	5.0	2.7	1.7	8.8	11.6	1.0	1.1	2.3	
27		3.5	6.3	4.9	2.5	1.8	10.0	11.8	0.9	1.1	2.4	
28		3.0	6.0	4.2	6.5	2.0	9.6	10.3	1.0	1.0	3.0	
29		4.0	5.7	3.5	6.7	2.2	11.3	8.4	1.3	1.0	3.5	
30			5.7	3.3	5.0	2.0	13.4	6.3	1.7	1.0	3.4	1.7
31			5.5		4.0		16.0	5.4		1.0		1.7

1897.

1	1.7	Frozen.	7.5	6.5	6.5	2.5						
2	1.8		6.5	5.8	4.7	2.3						
3	3.3		6.5	5.3	5.2	2.2						
4	10.7		8.5	5.0	5.0	2.7						
5	14.3		13.8	5.4	5.4	2.5						
6	14.5		17.5	5.5	6.2	2.2						
7	14.5		18.2	5.4	6.9	2.0						
8	14.0		17.8	5.7	6.3	2.3						
9	12.5		17.7	8.0	5.5	2.2						
10	10.2		18.2	10.5	5.5	2.0						
11	9.5		18.4	9.8	7.7	1.8						
12	8.3		18.2	10.0	7.3	2.0						
13	7.2		17.9	11.0	8.8	2.3						
14	6.0	7.0	17.5	11.2	9.2	2.5						
15	5.5	9.0	16.8	10.8	8.0	2.2						
16	5.0	10.5	15.8	10.2	7.1	2.1						
17	5.5	11.2	14.0	10.2	6.5	1.7						
18	9.0	12.4	11.8	9.0	5.8	1.8						
19	10.0	13.2	11.6	7.8	5.5	5.3						
20	10.3	14.0	11.9	6.8	5.0	9.0						
21	10.5	15.0	12.1	5.0	4.5	10.0						
22	9.2	15.7	12.3	5.0	4.2	9.8						
23	8.0	16.1	12.2	4.5	4.0	8.5						
24	6.5	16.0	11.3	5.0	4.5	6.9						
25	Frozen.	15.8	10.6	5.2	5.0	5.6						
26		15.2	10.5	6.8	4.5	5.0						
27		12.8	10.2	7.7	4.0	4.3						
28		9.2	9.8	8.3	3.5	3.6						
29			8.9	7.8	3.3	3.0						
30			7.9	7.2	3.0	2.7						
31			7.0		2.8							

DAILY RIVER STAGES.

Ohio River system—Wabash River, Mount Carmel, Ill.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.1	8.8	4.9	9.6	3.8	6.2	6.0	14.1	6.2	3.5	2.5	9.1
2	8.1	7.7	4.9	9.7	3.6	5.5	5.0	13.5	5.5	4.0	2.5	8.9
3	8.0	7.1	4.9	9.6	3.5	4.9	4.4	13.0	4.8	5.0	2.5	8.3
4	7.0	7.5	4.8	9.1	3.3	4.5	3.9	12.9	4.3	6.8	2.4	7.8
5	4.5	8.4	4.7	8.4	3.0	4.4	3.4	13.1	4.3	8.7	2.4	6.7
6	3.5	9.7	4.5	7.6	3.0	4.1	3.4	13.3	4.0	9.5	2.6	5.7
7	3.3	10.5	4.5	6.8	2.9	3.5	4.0	13.4	3.4	9.8	2.8	5.0
8	3.4	10.5	4.7	5.9	2.8	3.3	4.4	12.2	3.3	8.5	3.0	4.5
9	3.5	10.0	5.0	5.0	2.6	3.2	3.9	9.8	3.0	7.0	3.5	4.5
10	3.4	9.0	5.7	4.5	2.5	3.2	3.3	8.6	3.0	6.5	3.8	4.4
11	3.6	8.0	7.0	4.1	2.3	3.0	3.0	8.8	2.8	5.5	4.0	4.4
12	3.7	7.2	7.5	3.9	2.2	3.0	2.8	8.9	2.6	5.3	4.5	4.4
13	3.8	6.7	7.4	3.8	2.0	3.4	2.3	9.0	2.5	5.0	5.0	4.9
14	3.9	7.1	7.0	3.8	2.0	3.5	2.0	9.4	2.4	4.8	5.8	5.1
15	3.9	8.5	6.5	3.6	1.9	3.5	2.0	9.5	2.3	4.5	6.0	5.0
16	3.7	9.5	6.0	3.5	1.8	3.5	1.9	9.6	2.3	4.3	6.1	5.0
17	3.7	9.9	5.5	3.4	1.8	3.3	1.8	9.4	2.2	3.8	6.2	5.0
18	3.8	9.5	5.0	3.3	2.0	3.3	1.8	9.0	2.2	3.5	5.6	4.8
19	3.8	8.8	4.8	3.1	2.0	3.4	1.8	8.9	2.4	3.4	5.0	4.7
20	3.6	7.4	4.8	3.0	2.0	3.4	2.5	8.3	2.3	3.2	4.8	5.0
21	3.4	6.0	4.8	2.9	2.2	3.1	4.1	7.5	2.3	3.0	4.5	5.9
22	3.3	5.5	5.0	2.8	3.9	3.0	5.9	7.0	2.4	3.0	4.0	5.9
23	3.2	4.5	5.6	2.7	4.0	2.9	9.2	6.1	2.2	2.9	3.8	5.6
24	3.3	4.1	6.0	2.6	4.4	4.9	10.3	5.8	2.5	2.7	3.7	5.0
25	3.8	3.9	7.0	2.5	4.5	5.1	11.0	5.5	2.3	2.7	4.0	4.8
26	5.0	4.2	8.0	3.0	4.5	6.5	12.5	6.3	2.1	2.7	4.3	4.5
27	6.8	5.0	8.8	4.0	4.2	7.0	13.4	8.0	2.1	2.5	5.0	4.2
28	8.7	5.1	9.3	4.2	4.4	6.7	14.0	9.0	2.0	2.5	6.7	4.0
29	10.2	5.0	9.2	4.2	4.9	6.9	14.3	9.0	2.5	2.5	8.2	3.7
30	10.5	-----	9.0	4.0	6.3	6.7	14.3	8.2	3.0	2.5	8.8	3.5
31	9.9	-----	9.5	-----	6.5	-----	14.3	7.2	-----	2.5	-----	3.0

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.0	Frozen.	19.4	11.5	10.0	5.0	4.3	2.9	1.2	0.7	0.5	4.3
2	2.9	-----	18.9	13.4	9.5	4.7	4.2	2.8	1.1	0.7	0.6	4.4
3	3.0	-----	17.1	14.5	9.0	4.5	4.0	2.6	1.1	0.7	0.6	4.0
4	4.0	5.0	15.0	13.4	8.5	4.0	3.9	2.2	1.1	0.6	0.6	3.7
5	7.8	5.0	15.5	13.0	7.9	3.9	3.6	2.5	1.0	0.6	0.6	3.4
6	10.5	5.0	19.2	13.2	7.8	3.8	3.5	2.8	1.0	0.6	0.7	3.2
7	12.0	5.9	20.5	13.0	7.8	4.0	3.4	2.7	1.0	0.6	0.8	2.9
8	12.8	6.5	21.8	13.2	8.0	4.0	3.3	2.5	1.0	0.6	1.0	2.7
9	13.3	7.5	23.3	14.3	8.0	4.0	3.1	2.4	1.0	0.6	1.2	2.6
10	13.3	7.5	24.3	16.5	7.9	4.1	3.0	2.3	0.9	0.6	1.4	2.3
11	12.9	7.4	25.6	17.9	7.7	4.1	3.0	2.1	0.9	0.6	1.5	2.2
12	11.9	7.3	26.3	18.5	8.5	3.8	3.0	1.9	0.9	0.6	1.6	2.5
13	10.4	7.8	26.4	18.5	9.5	3.5	3.1	1.8	0.9	0.6	1.8	2.7
14	9.0	8.3	25.7	18.7	9.8	3.5	3.1	1.7	0.9	0.6	1.9	3.4
15	8.0	9.0	25.0	19.0	10.3	3.5	3.0	1.6	0.9	0.6	2.0	3.6
16	7.0	10.0	24.5	19.4	10.4	3.5	3.0	1.5	0.8	0.6	1.9	3.8
17	7.0	11.2	23.9	19.5	9.8	3.5	3.0	1.4	0.9	0.6	1.9	4.0
18	8.0	11.9	23.5	19.4	8.8	3.4	3.0	1.3	0.9	0.6	2.1	5.2
19	10.5	12.5	23.1	18.5	8.0	3.4	2.9	1.2	0.9	0.6	3.1	6.2
20	12.2	13.0	22.6	17.3	7.3	3.3	2.9	1.2	0.8	0.6	3.5	7.4
21	13.1	13.2	21.8	14.9	7.0	5.0	2.9	1.2	0.8	0.5	4.1	7.4
22	13.8	14.5	21.1	12.2	6.5	7.5	2.8	1.3	0.8	0.5	4.1	7.1
23	13.9	16.3	20.5	10.5	6.0	8.5	2.8	1.3	0.8	0.5	4.0	6.4
24	13.5	17.3	20.0	9.2	5.7	8.0	2.8	1.2	0.8	0.5	3.5	5.3
25	12.0	17.9	19.5	8.0	5.5	7.9	2.8	1.2	0.7	0.5	3.2	4.4
26	10.4	18.5	18.9	8.4	5.5	7.0	3.0	1.2	0.7	0.5	3.0	4.0
27	9.0	19.0	18.0	8.7	5.5	6.0	3.0	1.2	0.7	0.5	3.0	3.6
28	7.0	19.2	16.8	9.5	5.6	5.5	3.1	1.2	0.7	0.5	3.0	3.3
29	Frozen.	-----	15.4	10.0	5.5	5.0	3.1	1.2	0.7	0.5	3.4	3.3
30	-----	-----	14.0	10.2	5.3	4.5	3.0	1.2	0.7	0.5	4.0	3.3
31	-----	-----	12.4	-----	5.0	-----	3.0	1.2	-----	0.5	-----	3.3

DAILY RIVER STAGES.

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Ohio River system—Wabash River, Mount Carmel, Ill.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.7	21.9	9.7	26.6	9.5	15.0	3.0	1.7	1.5	4.2	4.0	3.3
2	2.7	21.4	7.9	26.2	9.0	13.6	3.0	1.9	1.4	3.4	3.7	3.5
3	2.6	20.6	7.4	25.6	8.1	10.4	3.0	2.0	1.4	3.0	3.6	3.5
4	2.8	18.2	7.0	25.1	7.3	7.8	3.0	2.1	1.3	2.9	3.2	3.4
5	2.8	13.7	6.6	24.6	7.0	6.9	3.0	2.1	1.3	2.8	3.1	3.2
6	2.9	9.8	6.5	23.9	7.3	5.7	3.0	2.1	1.7	2.7	3.4	3.1
7	3.1	7.2	6.3	23.1	8.2	5.2	2.9	2.0	1.8	2.6	3.4	3.1
8	3.4	7.6	6.1	21.8	9.0	4.8	2.9	2.0	1.8	2.5	4.4	3.1
9	3.8	7.4	6.0	19.6	9.4	4.5	2.9	2.2	1.7	2.3	4.9	3.0
10	5.6	7.4	6.0	16.2	9.5	4.2	2.8	3.0	2.6	2.2	5.4	Frozen.
11	10.3	7.2	6.0	13.2	9.1	5.1	2.8	2.9	2.5	2.1	6.0	-----
12	13.1	6.9	6.5	11.2	8.4	6.2	2.8	2.8	2.4	2.1	7.8	-----
13	13.8	6.9	9.9	10.0	7.9	7.3	2.8	2.5	2.3	2.7	9.7	2.5
14	14.4	7.3	14.2	9.3	7.3	7.8	2.8	2.3	2.1	3.7	11.0	2.4
15	15.3	7.8	16.2	8.6	7.2	8.5	2.7	2.2	2.0	4.9	11.5	Frozen.
16	15.8	8.3	17.3	8.2	6.8	8.4	2.7	2.1	1.9	5.1	11.4	-----
17	16.3	8.5	18.1	7.9	6.0	7.9	2.7	2.1	1.9	4.9	10.5	-----
18	16.5	8.4	18.7	7.7	5.6	7.5	2.7	2.1	1.9	4.5	9.5	2.5
19	16.4	8.1	19.5	7.5	5.6	6.4	2.7	2.0	1.8	4.0	8.4	2.8
20	16.4	8.4	20.0	7.4	5.4	5.8	2.7	1.9	1.7	3.5	7.4	3.0
21	17.1	9.7	20.7	7.3	8.5	5.1	2.6	1.9	1.7	4.7	6.5	3.6
22	17.7	10.9	21.2	7.1	9.5	4.5	2.5	1.9	1.9	4.0	6.0	5.5
23	18.6	11.9	21.8	6.7	10.0	3.9	2.5	1.9	1.8	4.4	5.6	7.4
24	19.2	12.6	22.4	6.4	10.7	3.7	2.3	1.8	1.7	4.7	5.2	8.4
25	19.8	12.6	22.9	6.6	11.8	3.5	2.0	1.8	2.0	4.9	4.8	9.6
26	20.4	12.0	23.5	7.8	12.8	3.6	1.9	1.7	3.0	5.1	4.4	10.8
27	20.8	10.9	24.7	9.8	14.0	4.3	1.8	1.7	4.7	4.5	4.2	11.2
28	21.2	9.7	25.9	10.2	15.0	4.4	1.7	1.7	5.6	4.4	4.0	10.7
29	21.4	-----	26.6	10.6	15.6	3.7	1.6	1.6	5.8	4.2	3.9	9.5
30	21.6	-----	27.0	10.4	15.8	3.0	1.6	1.6	5.1	4.0	3.5	7.8
31	21.8	-----	27.0	-----	15.7	-----	1.6	1.6	-----	4.0	-----	6.7

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1	6.0	Frozen.	16.4	15.1	5.5	3.0	2.3	1.9	0.8	0.3	0.9	2.2
2	5.4	-----	17.0	14.2	5.0	2.9	2.3	1.7	0.7	0.3	1.0	2.0
3	5.5	-----	17.5	13.6	4.8	2.9	2.2	1.6	0.7	0.3	1.2	1.9
4	6.0	-----	17.8	13.0	4.5	6.2	2.1	1.5	0.6	0.3	1.3	1.8
5	6.9	-----	18.1	12.3	4.3	6.4	2.0	1.4	0.6	0.3	1.3	1.7
6	9.4	-----	18.4	11.4	4.2	5.9	2.0	1.4	0.5	0.3	1.2	1.6
7	11.5	-----	18.6	10.4	4.0	5.5	1.9	1.3	0.4	0.3	1.1	1.5
8	12.4	-----	18.5	9.7	3.8	4.8	1.8	1.5	0.4	0.3	1.0	1.5
9	13.0	-----	18.2	9.4	3.8	4.2	1.7	1.5	0.4	0.3	1.5	1.5
10	13.0	-----	17.4	8.7	5.1	4.4	1.6	2.6	0.5	0.3	1.6	1.4
11	12.3	-----	16.1	8.7	5.6	4.6	1.5	3.8	0.6	0.3	1.8	1.4
12	11.2	-----	15.5	8.7	6.0	5.0	1.4	4.3	0.5	0.3	1.8	1.8
13	9.8	-----	14.6	8.6	5.8	4.7	1.3	4.3	0.5	0.3	1.9	2.2
14	10.3	-----	13.8	8.6	5.8	4.4	1.2	4.0	0.4	0.3	1.9	2.5
15	14.0	-----	14.5	8.0	6.4	4.9	1.1	3.6	0.4	0.3	1.8	3.2
16	15.9	-----	14.6	6.8	6.7	5.0	1.0	3.5	0.4	0.3	1.8	3.7
17	17.0	-----	14.4	6.3	7.0	4.9	1.0	3.4	0.4	0.3	1.8	4.0
18	17.6	-----	14.0	5.8	6.6	4.5	1.1	3.2	0.4	0.3	1.6	4.2
19	18.1	-----	14.5	5.4	6.1	4.0	1.4	3.1	0.4	0.6	1.6	4.2
20	18.5	-----	15.0	5.4	5.9	3.8	1.5	3.0	0.4	0.9	1.6	4.3
21	19.0	-----	16.0	5.4	5.6	3.6	1.5	2.9	0.4	0.9	1.7	4.3
22	19.3	5.5	17.0	5.6	5.2	3.3	1.5	2.5	0.4	0.9	1.7	6.2
23	19.5	5.5	17.8	5.6	5.0	3.0	1.4	1.9	0.4	1.0	1.8	7.0
24	19.3	5.7	18.2	5.6	4.7	2.8	1.4	1.5	0.4	1.0	1.8	7.4
25	17.3	8.2	18.5	5.4	4.5	2.8	1.7	1.4	0.4	0.9	1.9	7.2
26	13.5	10.0	18.5	5.4	4.3	2.8	1.6	1.2	0.4	0.9	2.2	6.6
27	10.6	12.8	18.5	6.3	4.0	2.7	1.6	1.2	0.4	0.9	2.6	6.0
28	9.2	15.2	18.6	6.6	3.8	2.7	1.5	1.2	0.4	1.0	2.7	5.2
29	8.2	-----	18.0	6.6	3.6	2.6	1.4	1.0	0.4	1.0	2.5	Frozen.
30	6.9	-----	17.2	6.0	3.4	2.4	1.6	0.9	0.3	1.0	2.4	-----
31	6.0	-----	16.2	-----	3.2	-----	1.8	0.9	-----	0.9	-----	-----

DAILY RIVER STAGES.

Pedee River system—Pedee River, Cheraw, S. C.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.5	3.1	9.2	3.6	1.9	1.5	2.8	1.8	1.3	18.4	1.2	3.8
2	14.4	2.9	7.3	4.6	2.0	1.6	2.5	1.8	1.3	23.0	1.2	15.5
3	9.8	3.4	5.5	18.0	2.0	1.5	2.2	1.7	1.2	12.5	1.6	12.2
4	5.8	20.4	3.8	20.0	2.2	1.5	2.3	1.5	1.1	5.0	1.5	7.8
5	3.8	24.4	3.4	12.0	2.5	5.5	3.0	1.5	1.3	2.5	2.0	5.8
6	3.0	21.4	3.0	6.8	2.9	8.0	4.0	1.4	2.0	2.2	14.7	5.4
7	2.4	31.2	2.9	5.8	1.9	5.0	5.0	1.0	6.2	1.9	19.0	5.8
8	2.2	31.8	2.9	4.0	1.8	3.2	21.5	1.3	7.2	1.9	12.0	7.8
9	2.0	27.0	2.7	3.5	2.0	2.0	33.8	1.2	3.5	1.4	5.5	9.2
10	2.6	29.6	2.7	3.0	1.8	2.0	36.4	1.2	2.0	1.1	3.0	8.8
11	2.7	25.9	2.4	2.9	1.6	2.2	35.5	1.2	1.4	1.4	2.4	6.8
12	2.4	19.2	4.5	2.9	1.6	2.4	33.6	1.2	1.4	1.4	2.4	4.7
13	2.0	13.5	8.0	2.8	1.6	2.8	31.5	2.0	1.2	1.4	2.4	4.0
14	2.0	9.8	5.8	2.8	1.5	3.5	27.5	2.0	1.2	1.4	3.1	3.0
15	2.2	10.0	4.3	2.7	1.4	2.5	21.9	2.2	1.2	1.6	3.6	3.0
16	2.0	9.5	3.4	2.1	1.4	2.0	15.0	1.5	1.3	1.4	2.6	6.0
17	2.6	7.3	3.4	2.4	1.4	1.5	9.4	1.5	1.4	1.3	2.4	9.2
18	3.8	5.8	3.0	2.1	1.3	1.4	9.0	2.3	1.5	1.4	2.0	10.4
19	10.2	4.9	2.8	1.9	1.3	1.5	7.4	1.8	1.5	1.3	2.0	6.9
20	5.8	4.6	3.4	1.7	1.3	1.8	6.4	1.9	1.5	1.3	2.0	5.0
21	4.1	4.2	3.7	1.7	1.3	2.4	9.0	1.5	1.5	1.3	1.8	4.2
22	3.2	4.0	4.0	1.6	1.6	1.8	6.0	1.5	1.2	1.2	1.8	3.4
23	3.0	3.2	3.5	1.4	1.8	2.0	5.0	1.3	4.5	1.2	1.8	3.8
24	9.1	3.0	3.0	1.4	3.5	2.4	4.0	1.2	3.0	1.6	1.5	3.2
25	12.6	3.2	2.5	2.0	4.5	8.8	4.2	2.0	2.1	1.3	1.8	3.4
26	12.0	3.4	3.0	2.0	2.8	5.6	3.5	2.1	1.9	1.1	1.8	2.8
27	9.5	3.3	3.9	1.8	2.7	4.0	2.8	1.9	1.9	1.4	1.7	2.6
28	5.9	3.2	3.4	1.6	2.9	4.3	2.5	1.8	1.8	1.5	1.6	2.4
29	4.2	4.5	2.6	1.4	2.5	4.0	2.4	1.4	1.3	1.4	1.4	2.1
30	3.7	-----	2.6	1.1	2.0	3.0	2.0	1.4	8.6	1.4	1.5	2.7
31	3.2	-----	2.6	-----	1.8	-----	2.0	1.4	-----	1.3	-----	3.1

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1	2.5	2.7	8.8	6.4	4.4	3.0	2.3	1.8	1.7	0.8	0.9	3.5
2	2.5	4.0	6.4	6.0	8.8	3.2	2.3	1.6	1.5	0.4	3.0	3.0
3	2.3	11.9	5.8	5.4	14.9	2.9	2.3	1.6	1.5	0.6	3.0	2.2
4	2.2	12.5	5.4	6.8	13.0	2.8	2.3	1.5	1.7	0.6	2.1	2.0
5	2.2	10.0	4.8	9.5	8.0	2.7	2.3	1.5	0.9	0.5	2.0	1.4
6	2.2	7.8	4.5	29.9	5.5	4.0	4.2	2.0	0.9	0.4	1.7	2.0
7	2.2	27.0	13.0	30.4	4.2	4.0	4.0	1.5	0.9	0.6	1.0	2.5
8	2.5	31.2	28.2	25.4	3.7	6.1	3.8	6.5	0.8	0.5	1.0	2.2
9	2.4	30.0	26.2	19.0	3.5	16.0	3.4	6.8	0.7	0.5	1.1	2.0
10	2.3	23.5	20.4	22.2	3.4	14.5	3.6	4.4	0.8	0.4	1.0	1.9
11	2.3	17.0	20.5	18.0	3.0	8.8	3.4	2.9	0.7	0.4	1.0	1.6
12	2.2	13.2	22.0	13.4	3.7	7.9	2.9	2.4	0.8	0.3	1.2	1.4
13	1.8	17.9	25.8	10.4	4.0	3.9	3.7	2.3	0.8	0.6	1.0	1.4
14	2.2	17.2	24.0	7.2	9.9	3.8	7.4	2.0	0.7	11.2	0.9	1.1
15	2.3	12.8	29.5	6.1	12.3	3.2	5.0	1.8	0.5	6.2	0.9	1.5
16	2.8	9.6	29.2	5.8	10.0	2.8	2.9	1.5	0.5	2.4	0.8	1.8
17	2.8	10.8	24.8	5.9	6.0	2.7	2.4	1.5	0.4	1.5	0.8	2.2
18	3.0	10.9	22.8	6.0	4.8	2.7	3.0	1.5	0.6	1.4	0.8	2.2
19	3.8	7.8	18.2	5.0	4.0	5.8	9.4	1.4	0.7	1.0	0.9	1.9
20	5.0	6.0	15.5	4.7	3.8	4.4	4.5	2.7	0.9	1.1	1.0	1.6
21	4.6	9.0	15.8	4.3	3.0	3.8	8.0	2.4	0.8	1.0	0.9	1.5
22	21.4	19.2	13.8	3.9	2.9	3.0	18.4	2.0	0.8	1.0	0.9	1.7
23	17.0	16.0	11.0	3.7	2.9	3.7	20.4	5.7	1.0	2.5	0.8	2.2
24	12.0	16.8	9.0	3.6	2.9	3.3	13.0	2.4	0.9	1.9	0.8	4.0
25	6.9	24.8	7.8	3.5	2.8	3.1	6.8	3.0	0.8	1.4	1.0	3.2
26	5.0	22.8	6.8	3.5	3.7	3.1	3.8	2.7	0.8	1.0	1.0	2.8
27	3.8	18.9	6.0	3.4	5.5	2.4	3.8	2.5	0.8	1.2	1.0	3.0
28	3.5	12.0	5.5	3.4	3.4	2.6	5.4	2.0	1.0	0.9	0.8	4.5
29	3.4	-----	5.0	3.7	2.8	2.6	7.8	2.0	0.9	0.9	4.5	4.5
30	2.5	-----	4.4	3.5	2.6	2.5	4.0	1.9	0.8	1.0	3.5	3.7
31	2.8	-----	5.0	-----	2.4	-----	2.0	1.7	-----	1.0	-----	2.5

DAILY RIVER STAGES.

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The Pedee River system—Pedee River, Cheraw, S. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.2	2.6	1.4	22.1	2.5	1.6	1.2	3.8	11.1	2.0	7.0	3.0
2	2.0	2.0	1.3	15.9	2.0	1.8	1.2	1.4	6.5	2.0	4.3	3.0
3	2.0	2.0	1.2	10.0	2.0	1.5	0.9	1.2	4.5	1.5	3.0	2.8
4	1.5	1.9	1.5	5.1	1.8	1.4	0.9	2.0	3.5	1.3	2.2	3.0
5	1.5	1.5	11.5	4.0	1.7	1.2	0.4	1.3	4.5	1.2	2.2	5.7
6	1.4	1.2	13.9	13.5	1.6	1.0	2.5	1.0	6.7	1.4	1.5	9.5
7	1.8	1.2	9.2	14.9	1.6	1.0	5.5	1.0	8.7	12.0	2.2	11.5
8	1.5	1.4	4.5	9.6	1.8	1.0	8.0	2.4	10.3	10.4	3.2	7.0
9	1.2	1.4	3.0	5.5	2.8	1.0	5.0	1.5	10.3	5.0	2.6	4.6
10	1.2	1.2	2.5	4.0	2.0	0.9	3.0	1.5	6.8	3.0	2.3	3.7
11	1.0	1.4	2.3	3.3	2.0	0.9	2.6	1.0	4.0	2.5	1.8	3.0
12	1.5	1.4	2.1	2.9	1.9	0.8	2.0	1.5	2.8	2.0	2.0	3.0
13	1.4	1.3	1.2	2.9	1.6	0.8	2.0	4.5	2.0	2.0	1.6	2.9
14	1.6	1.2	1.7	2.6	1.6	0.8	1.4	6.5	1.5	1.5	2.4	2.4
15	1.5	1.2	2.0	2.6	1.4	1.4	1.2	12.4	1.0	1.7	2.9	2.2
16	1.2	1.1	3.5	2.5	1.8	1.4	0.8	7.2	1.0	1.5	3.0	2.0
17	1.4	0.9	3.8	2.4	2.2	1.7	1.5	4.2	0.8	1.4	4.5	1.7
18	1.5	0.9	3.3	2.4	1.9	2.4	1.8	2.5	0.6	1.3	7.5	1.7
19	1.4	1.5	3.0	1.9	1.4	4.2	2.0	3.0	0.6	1.3	7.8	1.8
20	1.4	1.8	3.1	2.1	1.4	4.8	1.6	8.0	0.6	1.3	10.5	1.7
21	1.4	2.5	3.0	1.9	1.4	2.8	1.0	18.5	0.6	2.3	8.2	2.7
22	1.8	2.9	2.6	1.9	1.2	2.5	1.0	29.5	0.5	3.8	5.6	3.0
23	3.9	2.9	2.2	1.7	1.2	1.6	1.3	27.2	0.5	5.5	4.0	3.3
24	2.9	2.2	2.0	1.8	4.0	1.8	3.5	19.2	2.8	12.5	3.4	4.5
25	2.2	1.7	1.8	4.1	14.2	1.7	4.0	9.6	21.2	8.2	3.0	8.5
26	5.5	1.5	2.0	5.0	9.4	1.0	4.5	4.2	27.5	6.5	3.4	6.5
27	12.0	1.4	3.0	5.5	4.9	1.0	3.0	3.0	20.0	3.3	2.8	4.4
28	10.2	1.4	2.1	8.0	2.9	1.0	2.0	4.0	9.0	3.0	2.6	3.4
29	6.5	-----	1.9	7.0	1.9	1.1	3.0	5.5	4.0	3.0	2.4	3.0
30	4.1	-----	1.8	4.5	1.9	1.6	3.5	5.0	2.5	2.2	3.0	2.6
31	3.0	-----	16.2	-----	1.8	-----	5.5	11.5	-----	8.6	-----	2.4

1899.

1	2.4	9.0	27.2	17.5	5.2	2.5	2.0	3.8	2.2	1.0	10.2	2.7
2	2.0	11.2	22.2	14.0	5.0	3.0	1.5	5.3	1.7	0.9	10.1	2.5
3	9.0	8.0	17.5	12.0	4.7	3.0	1.8	3.5	1.5	0.8	6.4	2.5
4	6.5	6.4	18.2	9.6	4.4	3.8	1.5	2.0	1.9	0.7	4.0	2.2
5	4.2	10.0	23.5	17.0	4.2	3.0	1.5	2.0	1.7	0.7	3.0	2.1
6	3.5	27.2	25.2	17.5	4.2	2.5	4.5	1.5	1.5	2.1	3.0	2.0
7	3.5	32.0	22.2	14.5	4.2	1.8	4.8	1.3	1.4	3.7	2.3	1.8
8	22.5	34.9	19.2	19.0	5.2	1.8	2.8	1.5	1.4	5.0	2.0	1.7
9	27.8	34.2	14.4	23.8	8.0	1.8	1.8	1.5	1.5	7.1	1.8	1.6
10	22.5	28.7	9.0	22.5	8.3	2.0	1.8	1.5	1.5	7.0	1.8	1.4
11	14.0	23.0	8.8	17.2	6.4	3.5	2.0	1.5	1.7	4.5	1.6	1.2
12	9.3	18.0	8.6	13.1	6.5	3.5	2.0	2.5	6.9	2.8	1.5	1.6
13	9.0	12.0	8.3	9.5	6.0	4.0	1.7	2.5	3.8	1.9	1.5	8.2
14	11.0	6.0	7.0	9.0	9.5	5.5	1.5	2.0	2.2	1.6	1.4	9.0
15	20.5	5.5	11.5	8.0	13.0	6.9	1.0	2.0	1.8	1.5	1.3	7.3
16	20.2	7.0	28.7	7.5	8.0	5.5	1.0	2.0	1.3	1.5	1.5	4.0
17	16.0	26.7	31.0	7.0	5.5	4.0	1.0	2.5	1.2	1.5	1.4	2.7
18	12.5	29.5	29.8	6.7	4.2	3.0	1.0	2.0	1.1	1.4	1.3	2.2
19	10.9	28.0	23.8	6.4	3.8	2.0	1.0	2.0	1.1	1.3	1.3	1.8
20	7.7	26.0	26.0	6.0	3.7	2.0	1.0	2.0	1.1	1.2	1.3	1.6
21	6.0	22.4	30.4	6.0	3.8	2.0	1.0	1.5	1.1	1.1	1.2	1.5
22	5.0	19.0	32.5	5.8	3.2	2.0	1.0	1.8	4.1	1.0	1.1	1.4
23	4.5	16.0	26.9	5.5	3.0	1.8	1.0	2.3	2.7	1.0	1.1	1.3
24	4.2	14.0	21.0	5.2	3.0	1.4	1.0	1.2	1.9	0.9	1.4	2.0
25	4.2	11.5	16.5	5.0	3.5	1.2	1.5	1.2	1.4	0.9	1.5	7.1
26	4.5	9.0	12.5	5.4	3.0	1.2	1.5	1.0	1.2	0.9	1.8	5.5
27	4.5	12.6	11.5	7.4	2.8	1.0	2.1	1.0	1.1	0.8	3.0	4.0
28	4.1	27.0	17.0	8.2	2.5	3.4	7.0	1.0	1.0	0.8	8.7	3.0
29	3.9	-----	18.7	7.0	2.5	3.0	6.8	0.8	1.0	0.8	6.6	2.9
30	4.0	-----	21.9	5.8	4.0	2.5	3.4	1.5	1.0	0.8	4.1	2.5
31	4.5	-----	18.6	-----	3.0	-----	2.5	2.0	-----	2.0	-----	2.0

*35.2 during day.

*15.0 during day.

*32.7 during day.

DAILY RIVER STAGES.

*Pedee River system—Pedee River, Smiths Mills, S. C.***1896.**

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.0	10.0	9.0	5.0	2.8	2.5	7.4	6.5	3.4	0.6	1.1	1.5
2	4.8	9.8	8.4	5.0	2.5	2.2	5.8	5.5	2.6	0.5	1.1	1.9
3	7.4	9.4	8.0	4.8	2.1	2.1	5.0	4.1	2.1	7.2	1.4	3.0
4	8.2	8.0	9.2	5.0	2.3	2.3	3.5	3.6	1.3	8.5	1.8	8.0
5	8.8	7.2	9.5	6.6	2.7	2.8	3.0	3.0	1.0	9.2	1.8	9.0
6	9.0	7.3	9.4	8.0	3.2	1.8	2.8	2.2	0.9	9.5	1.9	9.5
7	10.1	9.8	9.0	9.6	3.8	3.9	2.8	2.0	0.8	9.8	3.5	10.0
8	10.0	10.4	7.8	10.6	4.4	6.4	4.5	1.6	0.8	9.8	6.5	10.0
9	8.6	11.4	7.0	10.6	4.1	6.9	6.8	1.3	3.4	9.4	8.0	10.0
10	6.2	12.4	6.2	10.6	3.4	6.6	8.8	1.1	5.6	7.6	8.9	10.0
11	4.8	13.4	5.8	10.7	2.6	5.4	9.6	1.1	5.8	5.0	9.4	10.0
12	3.4	14.6	5.4	9.8	2.1	4.0	9.6	1.1	4.4	3.5	8.9	10.0
13	3.0	15.6	6.2	9.2	1.9	3.6	9.6	1.1	2.0	3.0	9.7	10.0
14	2.8	16.4	6.8	8.6	1.6	3.6	10.3	1.1	1.0	2.3	8.8	10.0
15	2.0	16.8	6.4	7.8	1.4	3.6	12.3	2.0	0.6	1.8	7.0	10.0
16	1.8	16.8	8.0	5.6	1.1	4.0	16.4	2.6	0.6	1.5	4.8	9.9
17	1.6	16.8	8.2	5.0	1.1	3.8	17.8	3.0	0.2	1.2	3.2	9.4
18	1.4	16.2	7.8	3.4	1.1	2.8	18.1	2.7	0.2	1.0	2.8	9.5
19	2.4	15.6	7.0	4.9	1.0	1.9	18.0	2.4	0.2	0.8	2.6	9.5
20	3.6	15.0	6.6	4.6	0.9	1.0	17.8	2.1	0.2	0.5	2.4	9.2
21	4.1	14.6	6.8	3.0	0.8	1.6	17.2	2.3	0.2	0.5	1.8	9.0
22	7.2	13.8	6.6	2.5	0.6	2.4	16.4	2.5	0.0	0.0	2.0	9.0
23	8.2	14.0	6.6	2.5	0.6	3.2	15.6	2.3	0.0	0.0	1.7	9.0
24	8.0	13.4	6.6	2.5	0.8	2.9	14.8	2.0	0.0	0.0	1.8	9.0
25	7.4	11.9	7.0	2.5	1.3	2.7	13.8	2.0	3.1	0.0	1.8	9.0
26	7.4	11.1	7.3	2.7	2.1	3.3	13.4	2.8	3.9	1.0	1.5	8.0
27	8.6	10.4	6.0	2.9	4.3	6.2	13.0	3.4	3.0	1.4	1.5	7.4
28	9.5	9.6	5.8	3.1	4.7	8.0	12.0	4.1	2.4	1.4	1.5	7.0
29	10.0	9.0	6.4	3.2	4.2	8.6	11.0	4.5	1.9	1.4	1.5	6.8
30	10.2	-----	6.2	3.3	3.7	8.0	9.8	4.2	1.2	1.1	1.5	5.2
31	10.2	-----	5.8	-----	3.1	-----	8.2	3.9	-----	1.1	-----	4.8

1897.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.1	8.8	16.0	13.0	7.6	4.5	3.6	11.0	2.5	1.0	2.6	3.0
2	5.4	6.0	16.4	12.5	7.6	4.0	3.4	10.8	2.0	1.0	2.8	4.0
3	5.4	5.3	16.6	12.0	7.8	4.5	3.0	10.5	2.0	1.0	3.0	4.0
4	5.4	5.6	16.6	11.5	8.3	4.7	3.0	9.5	2.0	1.0	3.6	3.8
5	5.2	6.8	16.4	11.1	8.8	4.9	3.0	7.1	1.7	1.0	4.3	3.2
6	5.1	7.4	16.0	10.6	9.0	4.9	2.5	5.4	1.7	1.0	4.2	2.8
7	5.0	8.0	15.2	10.4	9.3	4.9	2.3	4.8	1.5	1.0	3.8	2.5
8	4.6	8.6	14.4	10.5	9.6	5.2	2.3	4.6	1.5	0.6	3.6	2.8
9	4.0	11.4	14.0	10.8	9.8	5.5	4.3	4.6	1.0	0.6	3.0	2.8
10	4.0	11.9	13.6	11.5	9.8	6.8	4.8	6.0	0.6	0.6	2.4	2.8
11	4.0	12.0	13.6	12.3	9.6	8.3	4.8	7.6	0.6	0.6	2.0	2.8
12	3.8	13.4	13.6	13.4	9.0	9.0	4.8	8.4	0.0	0.6	1.8	2.0
13	3.6	14.0	13.9	15.8	7.0	9.1	4.8	7.4	0.0	0.5	1.6	2.0
14	3.6	15.2	14.5	16.5	7.0	9.3	4.8	6.4	0.0	0.2	1.6	2.0
15	3.6	16.2	15.1	16.8	6.0	10.5	5.3	5.5	0.0	0.2	1.6	2.0
16	3.8	16.7	16.0	16.8	6.6	10.0	6.0	4.5	-0.6	2.5	1.6	2.0
17	4.2	17.0	16.3	16.5	9.8	9.4	6.0	3.8	-0.6	5.0	1.4	2.0
18	5.0	17.0	16.6	16.0	10.0	8.8	5.5	2.5	-0.6	4.8	1.0	2.0
19	5.1	16.7	16.8	15.8	10.0	8.8	4.8	2.5	-0.4	3.8	1.0	2.8
20	5.5	16.5	17.0	14.3	10.2	8.5	4.5	2.5	0.2	3.2	1.9	3.0
21	6.0	16.2	17.1	14.0	9.8	8.0	5.6	3.0	0.2	2.8	0.8	3.3
22	6.8	15.8	17.3	13.5	9.5	8.0	6.6	3.5	0.4	2.8	0.8	3.0
23	7.6	15.4	17.4	12.8	8.5	7.6	8.0	3.8	0.6	2.8	0.8	3.0
24	8.8	15.0	17.2	12.5	7.8	6.5	8.4	4.2	0.6	2.8	0.8	2.8
25	9.2	14.4	16.9	11.5	7.0	5.8	8.6	4.5	0.6	3.0	0.8	2.8
26	9.7	14.5	16.6	11.2	6.5	5.4	8.8	5.0	0.6	3.2	1.0	3.8
27	9.9	14.8	16.4	10.5	5.0	4.8	9.5	4.8	0.6	2.7	1.0	4.6
28	9.9	15.2	16.0	10.0	5.0	4.0	9.6	4.5	0.6	2.2	1.0	4.8
29	10.2	-----	15.5	9.0	5.0	3.8	11.0	4.0	0.6	2.2	1.0	4.8
30	10.2	-----	14.0	7.6	5.5	3.6	11.0	3.8	1.1	2.2	1.0	5.0
31	9.6	-----	13.5	-----	6.0	-----	11.0	3.0	-----	2.2	-----	5.6

DAILY RIVER STAGES.

375

Pedee River system—Pedee River, Smith's Mills, S. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.8	9.2	4.0	3.0	9.5	5.0	1.0	7.0	13.9	10.2	8.0	10.0
2	5.0	8.8	4.0	5.5	10.0	3.4	1.8	7.6	13.9	10.8	8.4	9.8
3	5.0	6.8	4.0	7.2	10.2	2.6	1.5	8.0	13.9	11.0	9.0	9.6
4	3.6	6.0	4.2	8.4	9.8	2.0	1.0	7.8	13.9	11.5	9.0	9.2
5	3.6	5.0	4.0	8.7	9.3	2.0	0.6	7.3	13.9	11.5	8.5	9.0
6	3.6	4.0	4.4	9.0	8.7	2.0	0.4	7.0	13.9	10.0	7.6	8.6
7	3.2	3.5	6.8	9.3	7.0	1.6	0.4	6.6	13.8	9.8	6.4	9.0
8	3.2	3.4	7.8	9.8	6.5	1.4	1.0	6.2	13.5	9.0	5.5	9.4
9	3.2	3.0	8.2	9.8	6.0	1.0	6.8	5.8	13.4	8.5	4.8	9.7
10	3.2	3.0	8.5	10.1	5.5	1.0	7.9	5.5	13.0	8.0	4.8	9.9
11	3.2	3.0	8.5	10.4	5.8	1.0	8.8	6.3	13.0	10.0	4.8	9.9
12	2.6	3.0	8.2	10.4	6.3	0.6	9.4	6.5	12.9	10.0	5.5	9.8
13	2.4	3.0	7.8	10.4	6.0	0.0	9.2	6.5	12.5	9.8	5.0	11.8
14	2.3	3.0	6.5	10.0	6.0	0.0	8.8	7.0	12.3	9.0	5.0	11.2
15	2.3	3.0	5.5	10.0	5.7	0.0	7.8	7.5	12.0	8.0	5.5	10.6
16	2.3	3.0	4.6	9.8	5.4	0.0	6.2	8.3	11.4	7.5	5.7	9.8
17	2.3	3.0	5.0	9.0	5.0	1.0	5.5	9.4	11.0	5.5	6.3	9.6
18	2.3	3.0	4.5	8.0	5.0	1.6	5.0	10.0	10.5	5.5	7.2	9.2
19	2.3	3.0	5.2	7.8	5.2	2.4	6.0	10.2	10.0	5.5	8.8	8.9
20	2.3	3.1	5.5	7.5	5.6	3.8	6.5	10.2	8.5	5.4	9.5	8.4
21	2.3	3.4	5.5	7.0	5.3	5.8	7.0	10.2	7.5	5.0	10.1	8.0
22	2.3	4.2	4.2	6.5	5.0	6.5	6.5	10.2	5.0	5.4	10.8	7.0
23	2.3	4.8	4.2	6.0	4.8	6.8	5.5	10.5	7.0	5.8	11.2	7.0
24	2.3	5.0	4.0	5.0	2.5	6.5	5.0	11.0	7.2	6.0	11.7	7.4
25	3.8	5.0	3.8	4.6	2.0	6.2	4.0	11.8	6.8	7.0	12.2	8.0
26	4.6	5.0	3.6	4.5	4.0	5.4	5.0	11.8	7.5	8.0	12.2	8.8
27	4.4	5.0	3.5	4.8	7.0	4.0	6.8	12.0	8.0	8.5	12.0	9.0
28	5.4	4.2	3.4	6.5	7.6	3.0	7.4	12.6	10.0	9.0	11.8	10.0
29	6.0	-----	3.4	7.8	8.0	2.0	7.7	13.2	10.4	9.0	11.4	10.3
30	8.0	-----	3.4	8.8	7.8	1.5	7.0	13.7	10.5	8.2	10.9	10.4
31	9.0	-----	3.4	-----	7.2	-----	6.6	13.9	-----	7.8	-----	10.4

1899.

1	9.6	11.4	16.4	16.2	11.1	5.1	5.3	6.9	1.1	1.0	1.8	8.0
2	9.0	11.3	16.0	15.6	11.1	5.8	4.8	6.5	2.6	1.0	3.4	8.4
3	8.6	10.9	15.8	15.0	11.0	5.2	4.6	6.1	2.8	1.1	6.8	8.0
4	8.0	10.9	15.4	15.0	10.9	5.2	4.2	6.3	2.8	1.1	8.2	7.4
5	8.5	11.3	15.9	15.2	10.6	5.1	3.4	6.4	2.4	0.8	8.8	6.6
6	8.7	11.6	16.5	15.4	10.3	5.0	2.8	5.6	2.4	0.8	9.1	6.0
7	8.9	12.3	16.5	15.0	10.1	5.3	2.6	4.8	2.5	0.8	9.1	5.6
8	9.0	12.6	16.7	15.0	10.0	4.8	4.4	3.8	2.3	2.2	8.6	5.2
9	9.4	13.2	16.9	15.0	8.2	4.3	5.8	3.2	2.1	4.2	7.8	4.8
10	10.4	13.8	16.9	14.8	7.9	3.8	5.7	2.6	2.1	5.7	6.6	4.8
11	10.8	14.6	16.9	14.8	7.8	3.7	5.1	2.3	2.1	6.9	5.6	4.6
12	11.0	15.8	16.7	14.8	9.6	4.1	4.4	2.2	2.2	7.6	5.2	4.4
13	11.6	16.9	16.6	15.2	9.8	4.8	4.0	2.4	2.3	7.8	5.0	4.2
14	12.0	18.3	16.2	15.2	9.9	5.2	3.6	2.6	4.0	7.3	5.0	4.0
15	12.8	18.5	16.0	15.4	10.0	5.8	3.2	3.0	5.8	5.8	5.0	6.0
16	14.0	18.6	15.0	15.2	10.2	6.6	2.8	3.1	6.2	4.6	4.5	8.0
17	14.2	18.3	15.0	15.0	10.2	7.5	2.4	2.7	4.8	3.3	3.9	8.8
18	14.4	18.0	14.8	14.8	10.3	7.8	2.2	2.5	3.4	2.8	3.6	9.0
19	14.6	17.2	14.4	14.6	10.4	8.0	2.0	2.0	2.4	2.6	3.4	8.6
20	14.8	16.6	14.4	14.4	9.9	7.5	2.0	1.8	2.4	2.6	3.2	7.6
21	14.9	15.8	14.7	13.9	9.6	6.6	1.9	1.6	2.5	2.6	2.9	6.9
22	15.0	15.4	15.0	13.5	9.0	5.7	1.9	1.6	2.1	2.6	2.8	5.2
23	15.0	15.2	15.6	13.1	8.5	5.3	1.9	1.3	2.0	2.6	2.7	5.2
24	14.5	15.8	16.2	12.9	7.0	4.8	2.1	1.1	2.0	2.6	2.5	4.6
25	14.3	16.6	16.8	12.6	6.8	4.4	2.2	1.5	4.0	2.0	2.5	4.2
26	14.0	17.3	17.4	12.3	6.5	4.0	2.2	1.7	4.0	1.9	2.8	4.0
27	13.9	17.1	17.6	12.2	6.5	3.5	2.5	1.3	3.6	2.3	3.2	3.8
28	13.6	16.8	17.8	12.0	6.3	3.4	2.8	1.0	2.0	2.1	3.4	7.6
29	12.9	-----	17.6	11.8	6.1	3.4	3.4	0.9	1.8	2.1	5.0	7.7
30	12.1	-----	17.2	11.5	6.0	4.4	5.0	0.8	1.8	2.1	7.0	7.0
31	11.8	-----	16.8	-----	5.0	-----	6.6	0.6	-----	2.4	-----	6.6

Pedee River system (Little Pedee River branch)—Lumber River, Fairbluff, N. C.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.5	4.4	4.3	3.2	0.3	1.0	0.3	2.4	-0.5	1.6	0.6	1.9
2	1.8	4.2	4.2	3.1	0.3	0.9	0.1	2.0	-0.5	1.7	0.9	2.2
3	2.0	4.1	4.1	2.9	0.3	0.6	0.1	1.8	-0.5	1.9	1.0	2.8
4	2.1	4.0	4.1	2.7	0.4	0.4	0.1	1.1	-0.5	2.0	1.2	3.1
5	2.0	3.9	4.0	2.5	0.3	0.3	0.2	0.7	-0.4	2.1	1.6	3.5
6	1.8	4.2	3.9	2.4	0.3	0.2	0.2	0.5	-0.4	2.0	1.9	3.8
7	1.5	4.2	3.9	2.3	0.4	0.1	0.1	0.1	-0.5	1.9	1.9	4.2
8	1.4	4.3	3.7	2.1	0.4	0.1	0.4	-0.1	-0.5	1.8	2.0	4.3
9	1.3	5.0	3.6	2.1	0.4	0.1	1.3	-0.2	-0.6	1.8	2.5	4.4
10	1.3	5.5	3.5	2.1	0.4	0.2	1.7	-0.4	-0.6	1.9	2.6	4.4
11	1.3	6.0	3.5	2.1	0.3	0.4	1.8	-0.4	-0.7	2.0	2.7	4.4
12	1.3	6.2	3.6	2.1	0.2	0.6	1.8	-0.5	-0.8	2.0	2.8	4.5
13	1.5	6.4	3.5	2.2	0.1	0.5	1.9	-0.4	-0.9	1.9	2.9	4.5
14	1.5	6.7	3.4	2.1	-0.1	0.4	2.1	-0.1	-0.9	1.8	2.9	4.6
15	1.3	6.7	3.3	1.9	-0.2	0.2	2.3	0.2	-1.0	1.5	3.0	4.8
16	1.2	6.7	3.3	1.7	-0.3	0.1	2.7	0.4	-1.1	0.9	3.1	4.9
17	1.4	6.6	3.4	1.5	-0.4	-0.1	3.2	0.5	-0.9	0.5	3.2	4.8
18	1.8	6.3	3.3	1.3	-0.5	-0.1	3.7	0.5	-0.7	0.4	3.2	5.0
19	2.0	6.1	3.4	1.2	-0.5	-0.1	4.1	0.5	-0.6	0.2	3.1	5.2
20	2.2	5.9	3.5	1.1	-0.6	-0.1	4.4	0.4	-0.6	0.3	3.0	5.1
21	2.4	5.6	3.6	1.0	-0.5	-0.1	4.4	0.2	-0.6	0.3	2.7	5.1
22	2.6	5.5	3.7	0.8	-0.5	0.1	4.2	0.1	-0.5	0.3	2.4	5.1
23	3.1	5.3	3.8	0.7	-0.3	0.2	3.9	-0.1	-0.3	0.3	2.0	5.1
24	3.5	5.1	3.9	0.6	-0.2	0.4	3.6	-0.4	-0.2	0.4	2.2	5.0
25	3.7	5.0	3.9	0.6	-0.1	0.6	3.3	-0.1	-0.1	0.4	2.0	4.9
26	3.9	4.8	3.8	0.6	0.1	0.7	3.1	-0.1	0.2	0.3	1.8	4.8
27	4.1	4.7	3.8	0.6	0.4	0.6	3.1	-0.1	0.4	0.4	1.6	4.7
28	4.3	4.5	3.7	0.5	0.6	0.6	3.2	-0.2	0.5	0.3	1.5	4.6
29	4.4	4.5	3.6	0.5	0.8	0.7	3.1	-0.2	1.0	0.5	1.5	4.4
30	4.5	-----	3.5	0.4	0.9	0.6	2.8	-0.3	1.4	0.5	1.6	4.3
31	4.5	-----	3.4	-----	0.9	-----	2.5	-0.4	-----	0.5	-----	4.2

1897.

1	4.0	2.8	6.6	4.9	2.9	0.9	0.5	5.1	2.5	-0.2	0.5	0.2
2	3.9	3.0	6.6	4.7	3.0	0.7	0.3	5.1	2.0	-0.3	0.6	0.3
3	3.7	3.0	6.6	4.5	3.1	0.7	0.2	5.0	1.4	-0.3	0.6	0.3
4	3.5	3.1	6.5	4.4	3.4	0.9	0.1	4.9	1.0	-0.4	0.7	0.3
5	3.4	3.2	6.4	4.4	4.0	1.3	-0.1	4.5	0.6	-0.4	1.2	0.4
6	3.3	3.8	6.2	4.4	4.3	1.5	-0.2	4.3	0.3	-0.4	1.3	0.4
7	3.2	4.1	6.1	4.4	4.4	1.4	-0.2	3.9	0.2	-0.5	1.4	0.4
8	3.2	4.4	6.0	4.4	4.5	1.7	-0.3	3.4	0.0	-0.6	1.4	0.5
9	3.2	4.8	5.8	4.6	4.4	2.0	-0.4	2.9	0.0	-0.7	1.5	0.5
10	3.2	5.0	5.7	4.7	4.3	2.4	-0.2	2.5	-0.1	-0.7	1.5	0.5
11	3.1	5.1	5.6	4.8	4.2	3.0	-0.1	2.4	-0.2	-0.8	1.5	0.5
12	3.1	5.2	5.5	4.9	4.1	3.6	0.1	2.4	-0.3	-0.8	1.6	0.6
13	3.1	5.2	5.5	4.9	4.0	4.0	0.7	2.7	-0.3	-0.8	1.7	0.6
14	3.1	5.2	5.5	4.9	4.0	4.1	0.6	2.9	-0.3	-0.2	1.6	0.5
15	3.1	5.3	5.6	5.0	3.8	4.2	0.6	3.0	-0.3	-0.1	1.4	0.5
16	3.0	5.4	5.6	5.1	3.6	4.1	0.7	3.0	-0.4	-0.1	1.0	0.6
17	3.0	5.5	5.7	5.3	3.3	4.0	0.8	2.9	-0.4	-0.1	0.8	0.6
18	3.1	5.5	5.8	5.3	3.0	3.9	0.9	2.8	-0.4	-0.1	0.5	0.5
19	3.1	5.5	5.8	5.2	2.8	3.7	1.0	3.1	-0.4	-0.2	0.4	0.5
20	3.2	5.5	6.0	5.1	2.6	3.5	1.2	3.7	-0.2	-0.1	0.3	0.7
21	3.2	5.7	6.1	4.9	2.7	3.2	1.5	4.1	-0.2	-0.1	0.2	0.7
22	3.2	5.7	6.1	4.8	2.7	2.8	1.7	4.3	-0.1	-0.2	0.1	0.7
23	3.3	5.9	6.1	4.6	2.8	2.0	2.0	4.1	0.0	-0.2	0.2	0.8
24	3.3	6.0	6.1	4.4	2.7	1.7	2.3	3.9	0.0	-0.1	0.1	0.8
25	3.3	6.1	6.0	4.2	2.6	1.4	2.5	3.6	0.0	0.0	0.2	0.9
26	3.4	6.2	5.9	3.9	2.5	1.2	3.0	3.3	0.1	0.1	0.2	1.1
27	3.3	6.4	5.8	3.7	2.3	1.1	3.8	3.1	0.1	0.2	0.2	1.3
28	3.2	6.5	5.6	3.4	2.0	0.9	4.4	2.9	0.2	0.3	0.2	1.4
29	3.1	-----	5.4	3.1	1.7	0.8	4.8	2.6	0.2	0.3	0.1	1.5
30	3.0	-----	5.2	2.9	1.4	0.7	5.0	2.3	0.2	0.4	0.2	1.6
31	2.9	-----	5.0	-----	1.0	-----	5.1	2.0	-----	0.5	-----	1.7

DAILY RIVER STAGES.

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Pedee River system (Little Pedee River Branch)—Lumber River, Fairbluff, N. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	2.2	2.0	1.1	4.2	0.5	-0.1	1.1	4.8	1.3	1.4	4.9
2	2.0	2.3	2.0	1.2	4.4	0.6	-0.3	1.4	5.0	1.2	1.4	4.8
3	2.0	2.4	2.0	1.4	4.5	0.5	-0.4	1.6	5.2	1.1	1.3	4.8
4	2.0	2.5	2.1	1.5	4.6	0.5	-0.3	1.8	5.2	1.0	1.3	4.8
5	1.9	2.4	2.2	1.8	4.7	0.3	-0.4	2.0	5.2	1.2	1.3	4.8
6	1.8	2.4	2.2	2.1	4.7	0.0	-0.6	2.2	5.2	1.4	1.2	4.7
7	1.8	2.4	2.3	2.3	4.6	-0.2	-0.6	2.4	5.2	1.3	1.1	4.7
8	1.7	2.4	2.4	2.4	4.5	-0.3	-0.6	2.6	5.0	1.1	0.9	4.8
9	1.6	2.2	2.6	2.6	4.3	-0.3	-0.4	2.4	4.8	1.3	0.8	5.0
10	1.4	2.0	2.8	2.7	4.0	-0.4	-0.3	2.3	4.6	1.4	0.9	5.0
11	1.4	1.8	2.9	3.0	3.8	-0.6	0.3	2.3	4.5	1.4	1.0	5.1
12	1.0	1.5	3.0	3.2	3.4	-0.8	0.6	2.3	4.5	1.5	1.1	5.1
13	0.9	1.4	3.0	3.2	3.0	-0.9	0.8	2.5	4.6	1.6	1.2	5.0
14	0.9	1.2	3.0	3.3	2.6	-0.9	0.9	2.6	4.9	1.8	1.2	5.0
15	0.8	1.1	3.0	3.4	2.2	-0.9	1.0	2.5	5.0	2.0	1.1	5.0
16	0.8	1.0	3.0	3.5	2.0	-0.9	1.0	2.3	4.9	2.2	1.2	4.9
17	0.7	1.0	2.9	3.5	1.8	-0.9	1.5	2.4	4.6	2.1	2.1	4.9
18	0.7	0.9	2.9	3.5	1.5	-0.9	1.7	2.5	4.4	2.4	2.6	4.8
19	0.6	0.9	2.8	3.4	1.1	-0.8	2.1	2.5	4.3	2.6	3.2	4.6
20	0.6	1.0	2.5	3.4	1.0	-0.5	2.3	2.7	4.0	2.1	3.6	4.4
21	0.6	1.0	2.3	3.3	1.0	-0.2	2.2	2.9	3.7	1.6	4.0	4.4
22	0.6	1.0	2.0	3.0	0.9	0.0	1.6	3.1	3.4	1.6	4.4	4.3
23	0.7	1.4	1.7	2.8	0.9	0.3	1.2	3.2	3.2	1.5	4.8	4.3
24	0.7	1.5	1.5	2.7	0.9	0.5	1.0	3.3	2.8	1.4	4.9	4.2
25	0.7	1.7	1.3	2.7	0.8	0.7	0.8	3.1	1.9	1.5	5.0	4.2
26	1.0	1.8	1.1	2.6	0.8	0.9	0.9	2.9	1.6	1.5	5.0	4.3
27	1.3	1.9	1.0	2.8	0.8	0.9	1.0	3.0	1.3	1.4	5.1	4.3
28	1.5	2.0	0.9	3.2	0.6	1.0	1.0	3.3	1.2	1.4	5.0	4.3
29	1.7		0.8	3.4	0.6	0.7	0.9	3.5	1.5	1.5	5.0	4.3
30	1.9		0.7	3.9	0.5	0.3	0.8	3.7	1.4	1.4	5.0	4.3
31	2.1		1.0		0.5		1.0	4.4		1.5		4.3

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1	4.3	4.9	6.6	5.3	4.7	2.7	1.4	6.0	0.7	0.8	2.1	2.9
2	4.2	4.9	6.5	5.3	4.5	2.7	1.2	5.8	0.7	0.7	2.3	3.0
3	4.0	4.9	6.5	5.3	4.3	2.9	1.0	5.5	0.6	0.6	2.4	3.2
4	3.9	5.0	6.6	5.4	4.1	2.8	0.9	5.2	0.4	0.6	2.5	3.5
5	3.9	5.0	6.7	5.4	4.0	2.7	1.0	5.0	0.4	0.6	2.0	3.7
6	3.8	5.2	6.7	5.5	3.8	2.7	1.2	5.8	0.3	0.4	3.5	3.7
7	3.8	5.4	6.7	5.5	4.0	2.8	1.3	5.6	0.3	0.3	3.8	3.7
8	3.7	5.9	6.8	5.7	3.8	2.9	1.7	5.4	0.2	0.5	4.0	3.8
9	3.5	6.3	6.8	5.8	3.7	2.9	2.6	5.2	0.1	0.7	4.1	4.0
10	3.3	6.9	6.7	5.9	3.7	2.8	3.0	5.0	0.1	1.0	4.1	4.1
11	3.2	7.1	6.6	6.1	3.9	3.1	3.3	4.5	0.2	1.2	4.3	4.1
12	3.3	7.4	6.5	6.2	4.1	3.2	3.5	4.2	0.3	1.4	4.4	4.1
13	3.4	7.4	6.4	6.3	4.2	3.3	3.5	4.3	0.5	1.6	4.5	4.0
14	3.5	7.4	6.1	6.3	4.4	3.5	3.5	4.4	1.4	1.7	4.5	4.0
15	4.2	7.5	6.0	6.2	4.4	4.1	3.4	4.2	1.0	1.8	4.4	3.8
16	4.5	7.3	5.8	6.2	4.3	4.3	3.4	4.0	1.0	2.0	4.3	3.7
17	4.6	7.2	5.7	6.2	4.2	4.5	3.4	3.7	0.8	2.1	4.0	3.5
18	4.9	7.2	5.5	6.1	4.1	4.5	3.3	3.0	0.7	2.4	3.5	3.4
19	5.1	7.3	5.4	5.9	3.9	4.5	3.2	2.6	0.7	2.5	3.3	3.3
20	5.3	7.2	5.3	5.8	3.8	4.2	3.2	2.7	0.8	2.6	3.0	3.3
21	5.6	7.1	5.2	5.6	3.7	3.9	3.4	2.7	0.8	2.7	2.8	3.3
22	5.7	7.1	5.2	5.4	3.7	3.9	3.3	2.6	1.0	2.6	2.6	3.3
23	5.6	7.1	5.2	5.3	3.7	3.8	3.3	2.6	1.0	2.4	2.4	3.3
24	5.6	7.1	5.1	5.2	3.6	3.5	3.3	2.4	0.9	2.0	2.2	3.3
25	5.6	7.1	5.1	5.0	3.1	3.3	3.4	2.3	0.8	1.6	2.2	3.2
26	5.6	7.0	5.1	5.0	3.0	2.8	3.6	2.0	0.7	1.4	2.3	3.2
27	5.5	7.0	5.2	5.0	2.9	2.5	4.1	1.7	0.7	0.9	2.5	3.2
28	5.4	6.7	5.2	4.9	3.0	2.2	4.8	1.5	0.8	0.7	2.7	3.2
29	5.3		5.3	4.9	3.1	1.7	5.4	1.4	0.8	0.6	2.8	3.3
30	5.1		5.3	4.8	3.0	1.2	5.7	1.3	0.9	0.5	2.9	3.4
31	5.0		5.2		2.8		6.0	0.8		1.3		3.4

DAILY RIVER STAGES.

*Pedee River system—Lynch Creek, Effingham, S. C.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.5	6.5	6.1	5.0	3.3	2.9	3.2	3.4	4.3	3.1	3.5	4.1
2	4.0	5.2	6.3	5.0	3.3	2.6	2.9	3.2	3.3	3.0	3.2	3.8
3	4.3	4.9	6.3	5.0	3.1	2.6	2.6	3.0	3.0	3.2	3.2	5.4
4	4.9	4.7	6.5	4.8	3.1	3.1	2.5	3.0	2.7	4.2	3.1	5.1
5	5.5	4.7	7.0	5.2	3.4	3.9	2.5	3.1	2.6	5.0	3.3	6.4
6	6.0	6.0	7.5	5.3	3.5	4.4	2.5	3.1	2.5	5.6	3.4	6.1
7	6.6	8.0	7.9	5.7	3.4	4.2	2.6	3.5	2.3	6.0	3.4	7.4
8	6.9	9.0	7.7	5.4	3.2	4.1	3.1	3.3	2.3	6.5	3.8	7.4
9	6.0	10.7	6.2	4.9	3.0	4.0	5.0	3.0	2.2	4.5	4.0	7.5
10	4.7	11.5	5.8	4.5	2.9	3.7	5.5	2.8	2.2	3.5	4.6	7.8
11	4.3	12.5	5.6	4.8	2.8	3.7	7.0	2.6	2.2	3.2	5.6	8.0
12	4.2	15.5	5.6	4.4	2.7	3.2	8.8	2.8	2.1	3.0	4.6	7.6
13	4.2	15.5	5.7	4.1	2.7	3.2	14.5	2.9	2.1	2.9	4.1	7.6
14	4.1	14.1	5.6	4.0	2.6	3.1	15.5	3.6	2.1	2.9	3.9	7.3
15	4.1	13.1	5.9	4.0	2.5	3.0	15.7	4.3	2.0	2.9	4.0	7.7
16	4.0	12.0	6.1	3.8	2.4	2.7	14.0	5.0	2.0	2.9	4.3	7.8
17	4.1	11.7	6.9	3.8	2.5	2.5	12.4	5.3	2.0	2.9	3.7	8.7
18	4.2	10.7	7.5	3.8	2.4	2.7	10.9	4.7	1.9	3.0	3.7	8.5
19	4.2	9.7	7.7	3.6	2.6	2.5	10.5	4.9	2.0	2.9	3.9	8.5
20	4.7	8.8	7.1	3.5	2.5	2.3	7.5	4.9	2.0	2.8	3.5	7.5
21	5.1	8.2	6.7	3.5	2.4	2.6	6.1	4.6	2.0	2.7	3.6	7.4
22	5.7	7.7	6.5	3.4	2.6	3.2	6.9	4.0	2.0	2.7	3.3	7.7
23	6.5	7.2	6.3	3.4	2.8	3.4	6.8	3.5	2.0	2.6	3.3	7.3
24	7.2	6.6	6.1	3.2	2.7	3.9	6.8	3.0	2.1	2.6	3.6	7.3
25	7.1	6.5	6.1	3.4	2.9	3.0	7.2	3.5	2.1	2.6	3.3	7.0
26	7.0	6.3	6.0	3.4	3.3	3.0	7.3	6.0	2.9	2.6	3.3	6.5
27	6.2	6.1	5.6	3.4	3.5	2.7	7.5	6.3	3.9	2.9	3.3	5.5
28	6.1	6.2	5.4	3.5	3.7	2.5	6.1	5.4	4.4	3.3	3.3	6.0
29	6.7	6.3	5.4	3.6	3.5	2.5	4.5	5.9	5.0	3.9	3.2	4.3
30	7.0	-----	5.0	3.5	3.1	3.1	3.9	5.5	3.8	4.2	3.4	5.3
31	7.1	-----	4.9	-----	3.0	-----	3.6	5.0	-----	3.7	-----	5.0

1897.

1	4.8	5.8	12.3	7.4	5.4	3.5	3.6	8.8	2.9	3.1	3.3	3.3
2	5.4	6.5	12.1	7.1	6.4	3.3	3.4	8.3	2.9	2.7	4.7	3.7
3	5.0	7.2	11.9	7.0	6.0	3.2	3.1	8.0	3.0	2.5	4.5	3.6
4	5.0	6.8	12.0	7.4	6.0	3.1	3.1	8.5	3.1	2.5	4.7	3.7
5	5.6	7.0	11.9	7.4	6.4	3.7	2.9	8.0	3.2	2.3	4.8	3.4
6	5.0	7.6	11.5	7.7	6.5	3.9	2.7	6.3	3.0	2.2	5.1	3.5
7	5.5	8.8	10.6	8.1	7.3	4.3	2.5	5.3	2.8	2.1	5.5	3.8
8	5.0	9.6	10.0	9.0	7.5	3.7	2.5	5.0	2.7	2.1	5.7	3.4
9	4.8	10.0	9.2	9.4	9.3	4.9	3.3	4.3	2.6	2.1	6.4	3.7
10	4.8	10.3	8.7	9.9	9.3	5.3	4.0	3.6	2.5	2.1	4.7	3.8
11	4.7	10.3	8.3	10.2	8.0	5.4	4.2	3.7	2.4	2.1	3.7	3.4
12	4.5	11.0	7.8	11.4	6.0	5.0	4.4	3.7	2.4	2.1	3.7	3.4
13	4.4	13.8	8.8	12.3	5.7	6.1	4.5	3.7	2.4	2.1	3.8	3.6
14	4.6	14.0	9.8	11.8	6.9	6.4	4.3	3.6	2.3	2.2	3.7	3.6
15	4.7	13.0	10.0	10.9	6.0	6.5	3.7	3.5	2.3	2.4	3.6	3.7
16	4.8	12.0	10.2	9.9	5.9	7.7	3.5	3.3	2.3	2.6	3.4	3.7
17	5.0	11.4	10.0	8.9	5.3	8.0	3.5	3.1	2.3	2.6	3.7	3.7
18	5.5	10.8	9.8	8.8	5.0	6.8	3.9	3.0	2.2	2.5	3.3	3.8
19	5.9	10.9	10.0	7.8	5.9	5.7	3.5	3.2	2.3	2.5	3.1	3.9
20	5.7	11.3	11.0	7.0	6.3	5.9	3.9	6.2	2.4	2.6	3.1	4.6
21	6.1	11.4	12.0	6.7	6.7	6.1	4.8	6.6	2.4	2.7	3.1	3.9
22	5.6	11.0	12.3	6.4	6.0	5.8	5.3	6.9	2.5	2.8	3.1	4.1
23	6.0	10.6	11.8	5.7	4.7	6.1	6.1	6.3	3.3	2.9	3.0	4.0
24	6.0	10.6	11.1	5.7	3.8	5.5	6.8	5.7	3.8	3.3	2.7	4.0
25	5.7	11.0	10.4	5.5	3.8	5.6	7.0	5.6	4.1	3.6	2.8	4.0
26	5.9	11.6	9.7	4.5	3.7	5.6	7.3	6.0	3.9	3.7	3.4	4.6
27	6.5	11.7	8.7	5.4	3.5	4.5	7.9	5.0	3.9	3.1	3.0	5.1
28	7.0	12.0	9.1	4.4	3.5	3.9	10.0	5.5	4.3	3.0	3.3	5.7
29	7.1	-----	9.1	4.3	3.8	3.8	12.1	4.0	4.1	3.1	3.3	5.3
30	7.6	-----	8.3	4.5	4.5	3.8	11.6	3.0	3.5	3.1	3.1	5.0
31	7.1	-----	7.9	-----	3.9	-----	10.3	2.9	-----	3.0	-----	5.2

DAILY RIVER STAGES.

379

Pedee River system—Lynch Creek, Effingham, S. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.6	6.0	4.0	3.9	9.4	2.6	3.1	5.3	11.0	4.9	4.1	7.7
2	5.8	6.8	4.0	3.6	9.8	2.3	2.7	5.8	11.5	4.1	4.0	7.5
3	5.0	6.9	3.8	4.0	9.6	2.2	2.5	6.8	12.7	3.5	3.8	7.3
4	4.5	6.4	4.2	4.3	9.5	2.1	2.3	7.0	12.9	4.3	4.3	8.0
5	4.0	5.9	4.7	5.5	9.5	2.1	2.1	7.1	13.3	4.7	4.4	9.5
6	4.0	5.2	5.1	6.5	9.5	2.0	2.1	8.6	13.0	4.4	4.0	9.4
7	4.0	4.1	5.4	6.7	9.0	2.0	2.2	8.0	13.4	4.4	3.7	9.7
8	3.8	4.0	5.7	7.5	7.5	2.0	2.4	7.7	13.4	5.7	3.7	9.0
9	3.7	3.9	6.2	6.3	5.5	1.9	2.7	5.6	12.8	5.8	3.9	9.0
10	3.7	3.9	6.7	6.8	4.5	1.9	2.7	4.8	12.8	6.0	4.0	9.0
11	3.7	3.8	7.2	6.3	4.5	1.9	5.0	5.2	11.0	6.3	4.0	8.9
12	4.1	3.7	7.5	6.8	4.5	1.8	5.7	4.4	9.7	7.3	4.0	8.3
13	3.7	3.7	8.0	7.0	4.5	1.8	6.5	4.6	9.6	7.1	4.0	7.6
14	3.7	3.7	8.5	6.5	3.7	1.8	7.4	5.0	8.4	6.0	4.1	7.0
15	3.6	3.7	7.3	6.1	3.5	1.7	7.9	5.6	8.0	5.0	4.7	6.4
16	3.6	3.7	5.5	6.1	3.5	1.7	7.7	5.6	7.8	4.5	5.0	6.7
17	3.6	3.5	5.6	6.1	3.4	1.8	7.0	6.3	6.6	4.2	6.5	6.0
18	3.5	3.5	5.0	5.8	3.7	2.2	5.3	7.0	6.0	3.7	8.5	6.0
19	3.5	3.7	5.0	5.4	3.7	2.9	5.0	7.8	5.6	4.0	10.0	6.0
20	3.4	3.8	5.5	4.5	3.0	2.9	5.0	8.0	4.1	4.0	10.7	6.2
21	3.4	3.9	5.5	4.5	3.1	3.5	4.7	8.0	4.7	3.8	10.9	6.4
22	3.5	4.3	5.9	3.9	2.9	5.8	3.5	8.0	5.1	3.8	11.0	6.7
23	3.5	4.7	5.5	3.7	2.7	6.4	3.3	7.8	5.0	4.0	10.7	7.6
24	3.5	5.2	4.8	3.7	2.6	6.0	3.5	7.4	5.6	4.3	13.0	7.9
25	3.7	5.4	4.6	3.7	2.5	6.5	3.3	8.0	5.6	4.1	13.5	7.7
26	4.3	5.0	3.8	4.1	2.5	5.7	3.3	8.3	5.5	4.5	13.8	7.5
27	4.5	4.3	3.8	4.1	2.5	6.1	3.0	9.8	5.7	5.3	13.0	7.0
28	4.8	4.2	3.7	4.8	2.4	5.1	3.4	10.2	6.1	5.5	12.6	6.7
29	4.9	.....	3.5	8.0	2.5	3.8	4.1	12.0	5.7	5.8	12.0	6.5
30	5.5	.....	3.6	9.0	2.9	3.3	4.1	13.7	5.3	5.0	9.0	6.1
31	5.7	.....	3.9	.....	2.9	.....	4.5	10.7	.....	4.3	.....	6.1

1899.

1	6.2	8.6	11.0	9.4	6.6	3.2	2.6	4.0	2.5	2.5	4.0	5.7
2	6.7	8.6	11.3	9.3	6.6	3.2	2.6	4.3	2.8	2.4	4.4	5.6
3	6.1	9.2	11.9	9.0	6.6	3.1	2.5	4.0	3.0	2.4	4.6	6.7
4	7.0	9.5	15.9	10.2	6.0	3.3	2.5	3.0	3.2	2.5	4.7	7.4
5	6.4	9.7	15.8	10.9	5.9	3.4	2.5	2.9	3.0	2.4	4.6	7.9
6	6.1	9.9	13.7	10.6	5.5	3.5	2.5	2.8	3.0	2.3	5.8	8.3
7	5.6	11.0	12.8	10.9	5.0	3.4	2.4	2.8	2.8	2.5	7.5	8.1
8	5.3	11.8	11.8	12.0	4.9	3.2	2.4	2.4	2.7	2.8	8.9	7.4
9	5.0	12.2	11.0	11.9	4.8	3.0	3.1	2.3	2.5	3.3	10.4	7.0
10	4.8	13.1	11.0	11.8	4.8	3.0	3.7	2.3	2.7	4.0	9.4	6.8
11	4.3	15.3	11.2	11.8	4.8	3.0	3.2	2.0	2.9	4.9	7.9	6.5
12	5.0	17.2	11.1	11.6	5.0	3.0	3.0	2.0	3.2	5.4	6.3	5.2
13	6.8	16.8	11.1	11.2	5.5	3.1	3.4	2.4	3.1	6.0	5.2	5.0
14	7.8	15.5	10.9	11.9	4.9	3.0	3.2	3.0	3.0	6.3	5.0	4.9
15	8.3	14.0	10.4	11.8	4.6	3.0	3.0	3.2	3.9	7.6	4.8	5.1
16	10.4	13.0	9.3	11.0	4.3	3.1	2.9	2.7	4.2	8.5	4.7	5.3
17	9.9	13.5	8.9	10.2	4.0	3.2	2.9	2.3	4.8	8.3	4.2	5.7
18	10.2	13.8	8.7	9.0	4.0	3.1	2.8	2.0	4.7	5.5	4.0	6.0
19	10.6	13.8	8.5	8.0	3.9	3.0	2.7	1.9	4.2	3.5	4.1	6.3
20	11.0	13.8	8.1	7.8	3.7	3.0	2.4	1.9	3.9	3.4	4.1	6.5
21	11.4	14.2	8.2	7.8	3.7	3.2	2.2	1.8	3.4	3.4	4.0	6.1
22	12.4	16.0	8.4	7.3	3.8	3.8	2.1	1.8	3.0	3.3	4.1	5.9
23	11.9	15.5	9.6	7.0	3.8	4.1	2.0	1.7	3.0	3.2	4.1	6.3
24	11.2	13.8	9.3	6.9	3.8	4.0	2.0	1.5	3.1	3.1	4.2	6.0
25	10.3	13.3	8.9	6.7	3.6	3.7	2.0	1.5	3.1	3.0	4.3	5.4
26	10.0	12.4	9.8	6.9	3.5	3.0	2.1	1.4	3.0	3.0	4.3	4.8
27	8.2	11.2	10.0	6.8	3.4	2.9	2.2	1.9	2.8	3.0	4.5	4.9
28	8.1	11.2	10.0	6.7	3.3	2.8	2.3	2.3	2.5	3.0	5.0	5.1
29	8.0	.....	10.0	6.8	3.3	2.7	2.5	2.5	2.6	3.1	5.3	5.7
30	8.2	.....	9.7	6.7	3.3	2.6	2.9	2.5	2.5	2.9	5.5	6.1
31	8.3	.....	9.2	.....	3.2	.....	3.4	2.5	.....	3.5	.....	6.3

DAILY RIVER STAGES.

Pedee River system—Black River, Kingstree, S. C.

1896.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.1	4.0	6.5	4.5	0.3	0.2	3.5	5.6	9.8	-0.7	-0.7	1.5
2	2.1	3.9	6.4	4.6	0.2	0.3	3.3	4.5	8.7	-0.6	-0.5	1.7
3	2.0	4.0	6.2	4.4	0.2	0.4	2.6	2.6	8.0	-0.6	-0.4	2.0
4	2.0	4.0	6.0	4.1	0.2	0.4	1.9	3.0	7.3	-0.5	-0.4	2.4
5	1.9	4.1	5.8	4.0	0.2	1.5	1.2	3.1	6.2	-0.6	-0.2	2.7
6	1.9	4.7	5.7	3.7	0.2	2.4	0.6	3.0	4.9	-0.6	0.1	3.0
7	1.9	5.5	5.6	3.7	0.3	2.7	0.4	2.4	4.7	-0.8	0.1	3.1
8	1.8	5.8	5.5	3.6	0.3	2.6	1.3	1.5	2.8	-0.8	0.4	3.1
9	1.8	6.7	5.4	3.5	0.3	2.5	2.3	1.0	2.2	-0.9	0.5	3.3
10	2.0	7.8	5.4	3.4	0.6	3.3	2.9	0.7	1.9	-0.9	0.3	3.5
11	2.3	8.3	5.4	3.4	0.9	3.2	3.3	0.5	1.6	-0.9	0.1	3.7
12	2.3	10.2	5.5	3.3	0.9	3.4	3.3	0.9	1.4	-0.9	0.0	3.9
13	2.4	10.6	5.5	3.3	0.7	3.5	3.5	1.0	0.9	-0.9	0.1	3.7
14	2.4	10.7	5.4	3.2	0.5	3.4	4.8	1.5	0.6	-0.7	0.2	3.7
15	2.4	10.6	5.2	3.0	0.2	3.3	5.9	2.4	0.4	-0.7	0.2	3.9
16	2.5	10.4	5.1	2.7	-0.2	3.2	6.9	2.9	0.2	-0.5	0.3	4.2
17	2.6	10.1	5.3	2.5	-0.4	2.0	8.4	4.0	0.0	-0.5	0.3	4.4
18	2.6	9.7	5.4	2.3	-0.5	1.7	8.9	4.9	-0.2	-0.5	0.2	4.7
19	2.8	9.5	5.6	2.0	-0.8	1.8	9.0	6.3	-0.3	-0.5	0.2	4.8
20	2.8	9.2	5.8	1.8	-0.8	1.5	8.8	6.5	-0.5	-0.6	0.3	5.0
21	2.8	8.9	5.9	1.6	-1.0	1.0	8.5	6.3	-0.6	-0.7	0.5	4.8
22	3.0	8.7	5.9	1.6	-1.2	0.4	8.0	5.6	-0.7	-0.7	0.5	4.6
23	3.4	8.4	5.9	1.1	-1.2	0.6	7.4	5.3	-0.8	-0.7	0.6	4.4
24	3.7	8.0	5.8	0.5	-0.1	0.5	7.0	4.6	-0.8	-0.7	0.6	4.1
25	3.8	7.7	5.7	0.5	-0.1	0.4	7.3	4.0	-0.8	-0.7	0.5	4.0
26	4.0	7.4	5.6	0.5	-0.2	0.3	8.2	3.9	-0.9	-0.7	0.7	4.1
27	4.2	7.3	5.5	0.5	-0.1	0.2	8.4	5.9	-0.9	-0.7	0.9	4.2
28	4.3	6.9	5.6	0.5	-0.1	0.8	8.2	8.4	-0.9	-0.7	1.0	4.3
29	4.3	6.7	5.5	0.4	0.0	1.8	7.7	9.6	-1.0	-0.7	1.1	4.4
30	4.2	.....	5.3	0.4	0.0	2.5	7.3	9.9	-1.0	-0.7	1.3	4.7
31	4.1	.....	5.0	.....	0.1	.....	6.5	9.7	.....	-0.7	.....	4.9

1897.

1	4.8	6.6	9.3	7.8	5.2	.....	2.1	4.0	7.2	1.7	3.8	3.2
2	4.9	6.6	9.4	7.6	5.7	.....	2.0	4.3	7.4	1.8	4.2	3.0
3	6.0	6.6	9.3	7.3	6.5	.....	2.0	5.0	7.2	1.9	4.5	2.8
4	6.2	6.6	9.2	7.3	6.6	.....	1.9	5.2	6.9	2.0	4.7	2.6
5	6.2	6.2	9.1	7.3	6.6	.....	1.9	5.3	6.6	2.2	4.9	2.5
6	6.2	6.5	9.9	7.3	6.3	.....	1.9	5.4	6.4	2.4	5.0	2.4
7	6.2	6.8	9.7	7.3	5.9	.....	1.9	5.5	6.0	2.5	4.9	2.4
8	5.9	7.4	9.5	7.3	5.4	.....	1.7	5.5	5.7	2.5	4.8	2.4
9	5.7	8.0	9.3	7.3	5.0	.....	1.5	5.6	5.3	2.5	4.6	2.4
10	5.5	8.8	9.1	7.3	4.5	.....	1.4	5.7	4.8	2.3	4.5	2.4
11	5.3	9.5	8.9	7.3	4.2	.....	1.3	5.7	4.2	2.1	4.5	2.5
12	5.1	10.0	8.8	7.3	4.1	.....	1.3	5.6	3.7	1.8	4.4	2.6
13	5.1	10.2	8.7	7.3	4.0	.....	1.3	5.6	3.0	1.6	4.2	2.7
14	3.3	10.2	8.7	7.4	3.9	.....	1.6	5.6	2.4	1.3	4.0	2.8
15	3.5	10.3	8.6	7.5	4.2	.....	2.0	5.7	2.0	1.0	3.8	3.0
16	3.4	10.1	8.7	7.7	4.5	.....	2.4	5.5	1.8	1.0	3.7	3.1
17	3.6	10.0	8.7	7.9	4.7	.....	2.8	5.3	1.6	1.0	3.6	3.3
18	3.8	9.9	8.7	7.8	4.5	.....	3.0	5.0	1.5	1.0	3.5	3.5
19	3.9	9.9	8.7	7.7	4.3	.....	3.3	4.8	1.5	1.2	3.7	3.6
20	4.3	9.9	8.7	7.6	4.0	.....	3.5	4.7	1.5	1.7	4.0	3.7
21	4.6	9.9	8.7	7.5	3.6	.....	3.5	4.5	1.3	2.3	4.3	3.8
22	4.9	9.9	8.7	7.2	3.5	.....	3.6	4.3	1.2	2.6	4.5	3.8
23	5.1	9.7	8.7	6.8	3.2	.....	3.4	4.2	1.2	2.8	4.5	3.9
24	5.3	9.7	8.7	6.5	3.1	.....	3.2	4.3	1.2	2.8	4.3	4.1
25	5.6	9.7	8.7	6.0	3.0	.....	3.1	4.9	1.2	2.8	4.0	4.3
26	5.8	9.9	8.7	5.7	3.0	.....	3.0	5.3	1.2	3.0	3.8	4.5
27	6.0	10.2	8.6	5.3	3.0	.....	3.1	5.7	1.2	3.1	3.6	4.6
28	6.2	10.2	8.5	5.2	3.1	.....	3.3	6.0	1.2	3.3	3.5	4.8
29	6.4	8.3	5.0	3.1	3.5	6.4	1.4	3.4	3.4	5.0
30	6.6	8.1	4.9	4.9	3.7	6.7	1.6	3.5	3.4	5.2
31	6.6	8.0	4.7	3.7	6.9	3.6	5.3

DAILY RIVER STAGES.

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Pedee River system.—Black River, Kingstree, S. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.4	3.6	3.1	3.4	5.0	1.8	7.1	4.6	7.4	3.2	2.4	10.4
2	5.5	3.7	3.2	3.4	5.4	1.8	6.8	4.5	8.2	3.0	2.3	10.1
3	5.6	3.7	3.3	3.3	6.4	1.7	6.4	4.5	8.6	2.8	2.0	10.0
4	5.4	3.6	3.6	3.1	7.0	1.7	5.8	4.3	8.9	2.8	2.0	9.5
5	5.2	3.5	4.0	3.2	7.5	1.6	5.0	4.3	9.4	2.8	2.0	9.3
6	5.0	3.5	4.3	3.3	7.8	1.5	4.5	4.4	9.8	2.8	2.0	9.3
7	4.8	3.6	4.7	3.5	8.1	1.4	4.0	4.5	9.9	3.1	2.0	9.1
8	4.6	3.7	4.7	3.8	8.2	1.3	3.6	4.5	9.5	3.2	2.0	9.1
9	4.5	3.7	4.8	4.0	7.9	1.1	4.2	4.5	9.2	3.4	2.0	9.0
10	4.4	3.6	5.0	4.2	7.5	1.0	4.6	4.4	9.1	3.6	2.0	9.0
11	4.3	3.6	5.2	4.4	7.0	0.9	5.1	4.3	9.0	4.0	2.0	9.0
12	4.3	3.5	5.0	4.6	6.8	0.8	5.4	4.1	8.8	4.1	1.9	9.0
13	4.3	3.5	5.0	4.8	6.5	0.6	5.7	4.2	8.5	4.3	1.9	8.9
14	4.4	3.4	5.1	5.0	6.3	0.5	5.8	4.6	8.3	4.4	1.9	8.7
15	4.3	3.3	5.3	5.1	6.0	0.4	6.0	4.8	7.9	4.5	1.9	8.5
16	4.1	3.2	5.5	5.1	5.6	0.3	6.3	4.7	7.4	4.3	1.9	8.3
17	3.9	3.1	5.7	5.1	5.2	0.4	6.5	5.0	7.0	4.0	2.3	8.0
18	3.7	3.2	5.8	5.1	4.7	0.2	7.0	5.4	6.5	3.9	2.8	8.3
19	3.6	3.4	5.7	5.0	4.0	2.2	7.2	5.8	6.0	3.8	3.4	8.1
20	3.4	3.4	5.0	4.9	3.4	2.5	7.3	6.2	5.6	3.7	4.1	8.0
21	3.2	3.3	5.0	4.7	3.0	2.8	7.2	6.3	5.3	3.6	5.1	8.0
22	3.2	3.3	4.9	4.5	2.7	3.0	6.8	6.3	5.1	3.5	6.0	8.0
23	3.2	3.3	4.7	4.3	2.4	3.3	6.5	6.1	5.0	3.4	6.5	8.0
24	3.3	3.3	4.3	4.0	2.2	3.6	6.2	6.0	4.9	3.3	7.0	8.3
25	3.4	3.2	4.0	3.8	2.0	4.0	6.0	5.8	4.6	3.0	7.3	8.6
26	3.5	3.0	3.7	3.6	2.0	4.8	5.8	5.8	4.4	2.9	8.3	9.0
27	3.7	3.0	3.6	3.5	2.0	5.5	5.4	5.9	4.2	2.9	9.3	9.4
28	3.8	3.0	3.5	3.7	2.0	6.0	5.0	6.0	4.0	2.9	10.2	9.6
29	3.8	.....	3.4	4.2	1.9	6.5	5.0	6.3	3.7	2.8	10.5	9.8
30	3.7	.....	3.4	4.6	1.9	6.8	4.7	6.7	3.4	2.6	10.7	9.8
31	3.7	.....	3.4	.....	1.8	.....	4.6	7.1	.....	2.4	.....	9.5

1899.

1	9.1	9.0	10.0	6.6	5.8	1.7	1.2	0.7	1.3	3.0	1.6	4.0
2	8.9	9.0	9.8	6.6	5.6	1.5	1.3	0.7	1.6	2.8	1.8	4.0
3	8.6	8.9	9.5	6.6	5.4	1.4	1.4	0.7	1.9	2.6	2.0	4.0
4	8.4	8.8	9.3	6.6	5.2	1.4	1.5	0.7	2.1	2.6	2.2	4.5
5	8.2	8.8	8.9	6.6	5.0	1.4	1.5	0.7	2.3	2.5	2.3	4.5
6	8.0	8.9	8.5	6.6	5.0	1.4	1.5	0.7	2.5	2.4	2.5	4.5
7	7.8	9.2	8.2	6.6	4.9	1.4	1.4	0.7	2.8	2.4	2.7	4.5
8	7.5	9.4	7.9	6.9	4.8	1.4	1.2	0.7	2.9	2.4	2.9	4.5
9	7.2	9.7	7.6	7.2	4.7	1.4	1.1	0.7	3.0	2.4	3.0	4.5
10	7.0	9.9	7.2	7.6	4.7	1.4	1.0	0.7	3.2	2.4	3.0	4.5
11	7.0	10.1	7.0	8.0	4.6	1.4	1.0	0.7	3.2	2.4	3.0	4.5
12	7.0	10.3	7.0	8.3	4.4	1.4	1.0	0.7	3.1	2.5	3.2	4.5
13	6.9	10.5	7.0	8.5	4.2	1.4	1.0	0.7	3.2	2.2	3.3	4.5
14	6.9	10.8	7.0	8.7	4.0	1.4	1.0	0.7	3.2	2.0	3.5	4.5
15	7.2	11.2	7.0	8.8	3.8	1.4	1.0	0.8	3.3	2.0	3.7	4.5
16	7.5	11.0	7.0	8.9	3.6	1.4	1.0	0.9	3.3	1.9	3.8	4.5
17	7.9	11.1	7.0	9.0	3.4	1.4	1.0	0.8	3.3	1.8	4.0	4.7
18	8.2	11.4	6.9	9.0	3.1	1.4	0.9	0.7	3.4	1.8	4.2	4.9
19	8.5	11.6	6.9	9.0	2.8	1.2	0.8	0.6	3.5	1.8	4.3	5.0
20	9.0	11.6	6.9	9.1	2.4	1.0	0.8	0.5	3.5	1.8	4.4	5.2
21	9.4	11.6	6.9	9.1	2.0	1.0	0.7	0.5	3.5	1.8	4.5	5.2
22	9.7	11.5	6.7	9.0	1.8	1.0	0.6	0.5	3.5	1.8	4.5	5.3
23	9.8	11.4	6.5	8.7	1.7	1.2	0.6	0.5	3.5	1.7	4.5	5.3
24	9.9	11.2	6.5	8.3	1.7	1.4	0.6	0.5	3.4	1.6	4.4	5.2
25	9.9	10.8	6.5	7.0	1.7	1.4	0.6	0.5	3.4	1.6	4.3	5.1
26	9.7	10.5	6.5	6.8	1.7	1.4	0.6	0.5	3.4	1.6	4.2	5.0
27	9.5	10.3	6.5	6.7	1.7	1.4	0.6	0.5	3.4	1.6	4.1	4.9
28	9.5	10.2	6.5	6.5	1.7	1.4	0.6	0.5	3.4	1.6	4.0	4.8
29	9.3	.....	6.5	6.4	1.7	1.4	0.6	0.6	3.5	1.6	4.0	3.7
30	9.1	.....	6.6	6.2	1.7	1.2	0.6	0.9	3.2	1.6	4.0	3.8
31	9.1	.....	6.6	.....	1.7	.....	0.7	1.1	.....	1.6	.....	3.9

DAILY RIVER STAGES.

Potomac River system—Potomac River, Harpers Ferry, W. Va.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.0	2.0	2.0	6.0	1.0	3.0	2.0	2.0	1.0	31.0	1.0	2.0
2	2.0	2.0	2.0	8.0	1.0	3.0	2.0	2.0	1.0	15.0	1.0	2.0
3	2.0	2.0	2.0	6.0	1.0	2.0	2.0	2.0	1.0	8.0	1.0	2.0
4	2.0	2.0	2.0	5.0	1.0	2.0	2.0	2.0	1.0	5.0	1.0	2.0
5	2.0	2.0	2.0	5.0	1.0	1.0	2.0	2.0	1.0	3.0	1.0	1.0
6	2.0	3.0	2.0	5.0	1.0	1.0	2.0	2.0	1.0	2.0	3.0	1.0
7	2.0	6.0	2.0	4.0	1.0	1.0	2.0	2.0	1.0	2.0	3.0	1.0
8	1.0	9.0	1.0	4.0	1.0	2.0	2.0	2.0	1.0	2.0	3.0	1.0
9	1.0	7.0	1.0	3.0	1.0	3.0	3.0	2.0	1.0	1.0	2.0	1.0
10	1.0	7.0	1.0	3.0	1.0	4.0	5.0	2.0	1.0	1.0	2.0	1.0
11	1.0	7.0	1.0	3.0	1.0	4.0	4.0	2.0	1.0	1.0	2.0	1.0
12	1.0	6.0	1.0	3.0	1.0	3.0	4.0	2.0	1.0	1.0	2.0	1.0
13	1.0	6.0	1.0	3.0	1.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
14	1.0	4.0	1.0	3.0	1.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
15	1.0	4.0	1.0	3.0	1.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
16	1.0	4.0	1.0	3.0	1.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
17	1.0	3.0	1.0	3.0	1.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
18	1.0	3.0	3.0	2.0	1.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
19	1.0	3.0	4.0	2.0	2.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
20	1.0	2.0	5.0	2.0	2.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
21	1.0	2.0	4.0	2.0	2.0	2.0	3.0	2.0	1.0	1.0	1.0	1.0
22	1.0	2.0	4.0	2.0	2.0	2.0	3.0	2.0	1.0	1.0	1.0	1.0
23	1.0	2.0	4.0	2.0	2.0	2.0	3.0	2.0	1.0	1.0	1.0	1.0
24	1.0	2.0	4.0	2.0	2.0	2.0	3.0	2.0	1.0	1.0	1.0	1.0
25	2.0	2.0	4.0	1.0	2.0	2.0	4.0	1.0	1.0	1.0	1.0	1.0
26	4.0	2.0	4.0	1.0	2.0	2.0	8.0	1.0	1.0	1.0	1.0	1.0
27	4.0	2.0	4.0	1.0	2.0	2.0	6.0	1.0	1.0	1.0	1.0	1.0
28	3.0	2.0	5.0	1.0	3.0	2.0	4.0	1.0	1.0	1.0	1.0	1.0
29	3.0	2.0	6.0	1.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
30	2.0	-----	6.0	1.0	3.0	2.0	2.0	1.0	11.0	1.0	1.0	1.0
31	2.0	-----	8.0	-----	3.0	-----	2.0	1.0	-----	1.0	-----	1.0

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.0	1.4	4.0	3.2	1.5	1.4	1.0	1.3	0.7	0.2	0.3	1.4
2	1.0	2.0	3.6	3.0	1.8	1.4	1.0	1.1	0.5	0.2	0.4	1.4
3	1.0	2.3	3.4	2.7	9.2	1.3	1.0	1.1	0.4	0.1	2.0	1.4
4	1.0	2.3	3.4	2.5	11.1	1.3	1.0	1.1	0.4	0.0	1.6	1.3
5	1.0	2.4	3.6	2.3	9.0	1.2	0.9	1.0	0.3	0.0	1.3	2.0
6	1.0	3.0	4.0	2.5	7.4	1.1	0.9	1.0	0.1	0.0	1.1	4.8
7	1.0	6.0	7.0	2.6	6.1	1.1	0.8	0.9	0.0	0.0	1.0	4.5
8	1.0	11.0	6.8	2.6	5.0	1.1	0.8	0.8	0.0	0.0	1.0	3.2
9	1.0	9.6	6.4	2.7	4.3	1.3	0.7	0.6	0.0	0.0	1.0	2.8
10	1.0	8.0	6.0	3.7	3.7	1.4	0.6	0.4	0.0	0.0	1.0	2.4
11	1.0	7.0	5.8	5.0	3.5	1.2	0.5	1.0	0.0	0.0	1.6	2.2
12	1.0	5.6	5.6	4.4	3.3	1.1	0.5	0.7	0.0	0.0	2.0	2.2
13	1.0	5.4	5.2	3.8	3.5	1.1	0.5	0.6	0.0	0.0	1.5	2.2
14	1.0	6.2	4.8	3.0	9.5	1.1	0.5	0.5	0.0	0.0	1.2	2.2
15	1.0	7.8	4.8	2.8	11.7	1.0	0.8	0.5	0.0	0.0	1.0	2.2
16	1.0	9.0	5.0	2.7	8.8	1.0	0.9	0.4	0.0	0.0	1.0	5.3
17	1.0	10.0	5.0	2.6	7.4	1.0	0.9	0.6	0.0	0.0	1.2	4.8
18	1.0	9.0	5.0	2.6	6.3	1.0	0.9	0.6	0.0	0.0	2.0	3.9
19	1.0	8.2	5.4	2.6	5.7	1.0	0.1	0.5	0.0	0.0	1.6	2.9
20	1.0	7.0	6.2	2.4	5.4	1.1	1.1	0.4	0.3	0.0	1.4	2.3
21	1.0	6.6	7.6	2.3	5.2	1.3	1.2	0.4	0.0	0.0	1.3	2.1
22	1.0	7.4	7.2	2.1	5.0	1.4	1.9	0.4	0.0	0.0	1.3	2.0
23	2.0	18.0	6.0	1.9	4.7	1.4	1.8	0.3	0.0	0.0	1.3	2.0
24	2.0	23.6	5.6	1.8	4.4	1.2	1.4	0.6	0.0	0.0	1.1	2.0
25	2.0	13.0	5.4	1.8	4.2	1.1	1.1	1.1	0.4	0.2	1.0	2.0
26	2.0	8.0	5.1	1.8	4.1	1.1	1.6	1.7	0.3	0.4	1.0	1.9
27	2.0	7.0	4.8	1.7	3.9	1.1	1.9	1.5	0.3	0.4	1.0	1.9
28	2.0	5.6	4.4	1.6	3.6	1.1	2.0	1.2	0.3	0.4	1.0	1.8
29	1.0	-----	4.0	1.6	3.2	1.0	1.7	0.9	0.3	0.3	1.6	1.8
30	1.0	-----	3.7	1.5	2.9	1.0	1.5	1.0	0.2	0.3	1.4	1.7
31	1.0	-----	3.5	-----	2.6	-----	1.4	0.8	-----	0.3	-----	1.7

DAILY RIVER STAGES.

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Potomac River system—Potomac River, Harpers Ferry, W. Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.7	3.0	2.2	6.5	3.0	2.9	1.1	2.4	2.0	0.5	3.7	2.6
2	1.6	2.4	2.1	5.7	2.9	2.7	1.0	2.2	2.0	0.5	3.4	2.5
3	1.5	2.3	2.0	4.7	2.7	2.5	1.0	2.0	1.8	0.7	3.0	2.5
4	1.5	2.2	2.0	4.4	2.6	2.4	0.9	1.6	1.7	0.7	2.8	2.5
5	1.5	2.2	2.0	4.0	2.5	2.2	0.9	2.8	1.7	0.7	2.6	6.0
6	1.4	2.2	2.0	3.3	2.5	2.0	0.9	7.6	2.0	1.5	2.6	8.8
7	1.4	2.1	2.0	3.2	2.6	2.0	0.9	5.7	2.0	1.3	2.5	5.6
8	1.4	2.0	2.0	3.1	5.5	2.0	0.8	3.3	1.9	1.2	2.7	4.2
9	1.4	2.0	2.0	3.0	11.0	1.9	0.8	4.4	1.9	0.9	2.7	3.6
10	1.3	2.4	2.0	3.0	9.0	1.7	0.8	4.8	1.8	0.8	2.6	3.2
11	1.9	2.4	1.9	3.0	5.5	1.6	0.7	8.4	1.8	0.8	2.6	3.0
12	5.0	2.2	1.9	2.9	4.8	1.6	0.6	15.5	1.7	0.8	2.6	2.7
13	4.5	2.2	1.9	2.9	4.3	1.5	0.5	8.4	1.6	0.8	2.6	2.6
14	4.2	2.2	1.9	2.9	4.0	1.5	0.5	6.8	1.6	0.8	2.7	2.6
15	4.0	2.2	1.9	2.9	3.5	1.5	0.5	5.5	1.6	0.9	2.7	2.6
16	6.2	2.2	1.9	5.7	3.2	1.9	0.5	5.0	1.4	0.9	2.6	2.4
17	6.5	2.2	2.0	8.9	3.2	1.7	0.5	4.8	1.3	0.8	2.6	2.4
18	5.6	2.2	2.6	6.7	4.1	1.6	0.5	4.6	1.2	0.6	2.6	2.4
19	4.0	2.2	6.0	5.2	4.5	1.6	0.4	4.0	1.0	0.8	2.6	2.3
20	3.6	2.7	4.5	4.4	4.2	1.6	0.4	3.6	1.0	8.8	2.6	2.3
21	3.3	3.3	4.3	3.7	4.2	1.5	0.4	3.3	0.9	5.0	2.6	4.0
22	3.0	5.7	4.5	3.3	4.1	1.5	0.8	3.0	0.8	5.2	2.6	3.7
23	3.8	4.4	7.5	3.0	5.0	1.5	0.8	2.8	0.8	13.2	2.6	5.5
24	7.5	3.5	6.0	3.0	4.5	1.5	0.8	2.7	0.7	9.0	2.6	6.7
25	6.6	3.1	8.0	3.0	5.5	1.4	0.8	2.6	0.6	5.0	2.6	6.7
26	5.5	2.9	10.0	2.9	4.8	1.4	1.0	2.3	0.8	4.0	2.4	5.5
27	5.7	2.7	8.0	2.9	3.5	1.3	1.0	2.3	0.9	3.8	2.4	4.2
28	5.3	2.4	5.7	2.9	3.5	1.3	1.0	2.2	0.7	3.8	2.6	4.0
29	4.2	-----	4.4	3.0	3.3	1.2	1.6	2.1	0.6	3.7	2.6	3.8
30	3.6	-----	4.8	3.2	3.2	1.2	2.0	2.0	0.5	3.7	2.6	3.6
31	3.4	-----	6.5	-----	3.0	-----	2.6	2.0	-----	3.8	-----	3.4

1899.

1	3.2	2.8	12.0	5.2	2.4	2.7	1.6	0.8	1.5	1.2	0.3	1.0
2	3.1	2.7	10.0	4.3	2.3	2.7	1.5	0.8	1.3	1.1	2.0	0.9
3	3.1	2.7	8.5	4.0	2.5	3.6	1.5	0.8	1.2	1.1	2.4	0.9
4	3.1	2.7	8.0	3.9	2.6	2.8	1.5	1.0	1.2	1.0	2.7	0.9
5	3.1	2.6	8.3	3.8	2.5	2.6	1.4	1.4	1.1	1.0	2.4	0.8
6	6.0	2.6	¹ 15.5	3.8	2.5	2.6	1.4	1.2	1.1	1.0	2.4	0.8
7	6.8	2.6	13.2	3.4	2.5	2.6	1.5	1.1	1.0	1.0	2.2	0.8
8	6.0	2.6	8.5	3.3	2.5	2.6	1.6	1.1	1.0	0.8	2.0	0.8
9	5.3	2.6	6.7	5.0	2.9	2.4	1.6	1.1	1.0	0.8	2.0	0.8
10	5.3	2.6	6.0	5.3	6.0	2.4	1.5	1.0	0.9	0.8	1.9	0.8
11	5.1	2.6	6.0	4.8	5.0	3.0	1.5	1.8	0.9	0.8	1.9	0.8
12	4.8	2.6	5.8	4.5	3.8	2.7	1.5	1.8	1.0	0.8	1.8	0.8
13	4.8	2.6	5.8	3.9	3.6	2.9	1.4	1.8	2.0	0.7	1.8	0.7
14	5.0	2.6	5.2	4.0	3.3	2.6	1.4	1.8	1.8	0.7	1.6	2.5
15	5.4	2.8	4.7	3.8	3.2	2.5	1.4	1.8	1.8	0.7	1.6	2.3
16	6.0	2.8	4.7	3.5	3.1	2.5	1.9	1.7	1.6	0.7	1.5	2.2
17	5.9	2.8	4.2	3.3	2.9	2.4	1.7	1.7	1.4	0.6	1.3	2.2
18	5.8	2.8	4.7	3.2	3.0	2.3	1.7	1.6	1.3	0.5	1.2	2.0
19	5.9	2.8	4.5	3.1	9.0	2.3	1.7	1.6	1.1	0.4	1.2	1.8
20	5.6	3.1	5.9	2.9	7.1	2.3	1.6	1.5	1.5	0.4	1.2	1.8
21	5.4	3.4	5.7	2.8	4.6	2.3	1.5	1.4	1.6	0.3	1.2	1.6
22	5.0	6.6	4.9	2.8	4.0	2.2	1.4	1.4	1.6	0.3	1.1	1.5
23	4.7	² 13.6	4.4	2.7	3.5	2.0	1.3	1.2	1.6	0.3	1.1	1.5
24	4.3	13.2	4.0	2.6	3.3	2.0	1.2	1.2	1.5	0.3	1.1	1.9
25	4.0	9.6	4.0	2.5	3.1	2.0	1.2	1.0	1.3	0.3	1.3	2.8
26	5.4	8.8	4.0	2.5	3.0	2.0	1.2	0.9	1.3	0.3	1.2	2.0
27	4.5	9.2	3.7	2.4	3.0	1.8	1.1	0.9	1.3	0.3	1.1	1.9
28	4.4	13.5	4.0	2.4	3.0	1.7	0.9	1.8	1.3	0.3	1.0	1.8
29	3.6	-----	5.5	2.4	2.9	1.7	0.8	2.1	1.2	0.2	1.0	1.6
30	3.2	-----	8.8	2.4	2.7	1.7	1.0	1.9	1.2	0.2	1.0	1.6
31	3.0	-----	6.7	-----	2.7	-----	0.8	1.7	-----	0.2	-----	1.6

¹16.7 during day.²15.26 p. m.

DAILY RIVER STAGES.

Roanoke River system—Roanoke River, Clarksville, Va.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			2.0	9.0	3.8	1.3	0.8	0.7				
2			1.5	9.1	3.7	1.0	0.8	0.7				
3			1.3	4.5	3.3	0.9	0.7	0.7				
4			1.2	3.3	2.5	1.2	0.7	0.6				
5			1.1	2.5	1.8	2.0	2.7	0.6				
6			1.0	2.3	1.5	1.5	4.3	0.6				
7		7.4	1.0	2.0	1.3	1.4	5.0	0.5				
8		7.5	1.0	1.9	1.2	1.3	8.0	0.5				
9		5.0	1.0	1.8	1.1	1.8	12.5	0.5				
10			1.0	1.8	1.0	1.5	13.8	0.4				
11			1.0	1.6	1.0	1.3	11.0	1.4				
12			1.5	1.5	0.9	1.2	5.5	0.7				
13			1.4	1.4	0.9	1.5	4.0	0.6				
14			1.3	1.4	0.8	1.3	2.7	0.5				
15			1.2	1.4	0.8	1.2	2.4	0.5				
16			1.6	1.4	0.8	1.3	2.2	2.0				
17			1.7	1.3	0.8	1.5	2.5	1.0				
18			2.0	1.3	0.8	1.4	1.8	0.9				
19			3.0	1.3	0.8	1.2	1.4	0.7				
20			3.9	1.3	2.7	1.2	1.3	0.5				
21			2.7	1.2	3.5	1.1	1.2	0.5				
22			2.0	1.2	2.9	1.8	1.2	0.5				
23			1.8	1.2	2.5	1.6	1.0	0.5				
24			1.9	1.2	1.9	1.5	1.0	0.5				
25			1.9	2.0	1.5	1.9	1.0	0.5				
26			1.9	1.8	1.8	3.0	0.9	0.4				
27			1.8	1.4	1.6	2.6	0.9	0.4				
28			1.8	1.2	1.5	2.4	0.8	0.4				
29			2.5	1.1	1.5	2.1	0.8	0.4				
30			4.0	4.8	1.5	1.3	0.8	0.4				
31			7.8		1.5		0.8	0.4				

1897.

1		2.7	2.9	2.0	1.7	1.6	1.1	0.7	0.2	0.1	0.1	0.2
2		3.2	2.8	2.0	2.8	1.6	1.0	0.6	0.2	0.1	0.1	0.2
3		4.0	2.7	2.0	5.3	1.6	1.0	0.5	0.1	0.1	0.2	0.1
4		2.7	2.4	2.2	4.8	1.6	1.0	0.4	0.1	0.1	0.2	0.1
5		1.8	3.6	2.4	3.2	1.7	0.9	0.4	0.1	-0.1	0.1	0.1
6		2.4	4.6	2.8	3.1	1.1	0.9	0.3	0.0	-0.1	0.1	0.1
7		6.4	4.8	3.2	3.7	1.7	0.8	0.3	-0.1	-0.1	0.1	0.1
8		12.0	4.6	3.4	3.4	1.6	1.0	0.3	-0.2	-0.1	0.1	0.1
9		9.2	4.5	3.2	3.0	1.6	0.9	0.3	-0.2	-0.1	0.1	0.1
10		4.8	4.0	4.1	2.8	1.6	0.8	0.7	-0.3	-0.1	0.1	0.1
11		3.2	4.0	3.7	3.2	1.6	0.8	0.7	-0.3	-0.1	0.1	0.1
12		2.7	4.8	3.4	4.0	2.6	0.7	0.6	-0.3	0.1	0.1	0.1
13		4.0	4.9	3.2	4.2	1.0	1.8	0.6	-0.4	0.2	0.1	0.1
14		3.4	5.7	3.0	5.0	1.0	1.3	0.4	-0.4	0.1	0.1	0.1
15		3.2	5.0	2.7	5.3	1.0	1.2	0.4	-0.4	0.1	0.1	0.1
16		3.7	4.1	2.4	4.6	1.0	0.9	0.4	-0.4	0.1	0.1	0.1
17		4.0	3.5	2.2	4.2	0.9	0.8	0.5	-0.4	0.1	0.1	0.1
18		3.2	4.3	2.0	3.8	0.9	0.9	0.7	-0.3	0.2	0.1	0.1
19		2.8	4.0	2.0	3.2	0.9	2.0	0.8	-0.3	0.2	0.1	0.1
20		3.4	3.6	1.9	3.8	1.0	1.8	0.9	-0.3	0.3	0.1	0.1
21		4.1	3.4	1.9	3.2	0.9	2.2	1.0	-0.4	0.1	0.1	0.1
22		6.7	3.2	1.8	1.9	0.9	1.5	0.7	-0.3	0.1	0.1	0.2
23		8.4	3.0	1.8	1.9	0.9	1.2	0.8	-0.2	0.1	0.1	0.4
24		11.0	2.7	1.8	1.8	1.0	1.2	0.7	-0.1	0.1	0.1	0.3
25		12.8	2.6	1.7	1.8	0.9	1.0	0.5	-0.1	0.1	0.1	0.2
26		4.6	2.4	1.7	1.8	0.9	0.8	0.4	0.1	0.1	0.1	0.2
27		3.2	2.3	1.6	1.8	0.9	0.7	0.3	0.4	0.1	0.1	0.1
28		3.0	2.2	1.6	1.7	1.0	0.7	0.3	0.2	0.2	0.2	0.1
29			2.2	1.6	1.7	0.9	1.2	0.2	0.1	0.3	0.3	0.1
30			2.1	1.6	1.6	0.8	1.1	0.2	0.0	0.2	0.2	0.1
31			2.0		1.6		0.8	0.2		0.1	0.1	0.1

DAILY RIVER STAGES.

385

Roanoke River system—Roanoke River, Clarksville, Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.1	0.1	1.0	1.4	1.2	1.5	0.6	1.5	1.1	0.9	3.8	1.4
2	0.1	0.1	1.0	1.2	1.1	1.2	0.3	1.5	0.7	0.8	2.5	1.6
3	0.1	0.1	1.0	1.0	0.9	0.8	0.2	0.9	0.7	0.9	1.6	1.5
4	0.1	0.1	1.0	0.8	0.8	0.7	0.0	0.9	0.3	0.9	1.3	1.4
5	0.1	0.1	1.0	1.0	0.5	0.5	0.0	0.4	0.3	1.9	1.4	4.2
6	0.1	0.1	1.0	1.1	0.7	0.4	0.1	1.6	1.7	2.8	1.4	6.7
7	0.1	0.1	1.2	1.5	4.2	0.4	0.5	1.6	2.3	3.1	1.3	4.0
8	0.1	0.1	1.7	1.2	7.3	0.4	0.8	1.3	2.4	2.4	1.4	2.8
9	0.1	0.1	1.3	1.0	7.2	0.4	0.4	0.8	1.7	1.6	1.2	2.3
10	0.1	0.1	1.9	0.8	3.9	0.3	0.3	0.6	1.1	1.4	1.1	2.0
11	0.1	0.1	1.8	1.0	2.5	0.3	0.3	1.0	0.6	1.2	1.0	1.7
12	0.1	0.1	1.6	1.4	1.9	0.3	1.3	1.1	0.4	0.9	1.1	1.5
13	0.1	0.1	1.5	1.7	1.6	0.5	0.6	2.1	0.3	0.8	1.2	1.3
14	0.1	0.1	1.5	2.0	1.6	0.6	0.3	2.4	0.2	0.8	1.2	1.2
15	0.1	0.1	0.9	1.6	1.6	0.9	0.3	3.5	0.2	0.7	1.1	1.2
16	0.1	0.1	0.7	1.4	1.6	1.8	0.4	3.6	0.2	0.6	1.1	1.1
17	0.1	0.1	0.8	1.3	2.2	2.6	1.4	1.7	0.1	0.5	1.1	0.9
18	0.1	0.1	1.0	1.0	1.7	2.9	1.8	1.1	0.1	0.5	1.3	1.4
19	0.1	0.1	1.0	0.9	1.4	3.6	2.0	1.0	0.0	1.3	1.6	1.3
20	0.1	0.1	1.2	0.7	1.1	3.2	1.1	0.8	0.0	3.4	2.6	1.2
21	0.1	0.1	1.3	0.6	0.9	3.3	1.1	1.1	0.0	2.6	2.7	1.6
22	0.1	0.1	1.0	0.6	1.4	2.0	0.9	1.3	0.0	2.2	2.1	1.4
23	0.1	0.1	1.0	0.9	2.2	1.2	1.2	0.8	0.5	8.5	2.0	2.8
24	0.1	0.1	1.1	1.2	8.5	0.8	1.6	0.7	8.8	7.4	2.6	4.0
25	0.2	0.1	0.9	1.3	6.6	0.5	1.3	0.3	10.4	2.6	2.1	5.4
26	0.3	0.1	0.8	1.7	3.8	0.4	1.9	1.3	8.0	2.4	1.7	3.2
27	0.2	0.1	0.7	2.2	3.0	0.5	1.1	0.9	2.6	2.2	1.5	2.2
28	0.2	0.1	0.7	1.8	2.8	0.6	1.0	0.8	2.0	2.1	1.3	1.5
29	0.2	-----	0.8	1.6	2.1	0.6	2.4	0.9	1.3	2.1	1.4	1.4
30	0.1	-----	1.1	1.6	1.5	0.9	2.4	1.1	1.0	2.1	1.5	2.8
31	0.1	-----	1.3	-----	1.4	-----	1.5	1.2	-----	5.2	-----	2.1

1899.

1	2.6	2.0	5.9	4.5	2.9	3.5	2.3	3.4	-----	-----	-----	-----
2	3.2	2.6	5.2	4.1	2.8	4.3	2.1	3.4	-----	-----	-----	-----
3	3.5	2.7	4.6	3.8	2.7	3.7	2.0	3.3	-----	-----	-----	-----
4	2.4	4.0	8.2	3.2	2.9	2.9	2.0	3.1	-----	-----	-----	-----
5	2.3	6.1	10.2	3.8	3.2	2.5	2.0	3.1	-----	-----	-----	-----
6	4.3	8.7	10.1	4.0	2.8	2.3	3.2	2.3	-----	-----	-----	-----
7	9.2	9.9	11.1	4.2	2.6	2.2	4.6	2.7	-----	-----	-----	-----
8	12.1	9.7	6.8	7.2	2.9	2.1	4.0	2.9	-----	-----	-----	-----
9	13.7	8.0	5.0	9.0	3.5	2.1	3.6	2.9	-----	-----	-----	-----
10	7.4	4.7	4.5	6.0	3.4	2.3	3.1	2.4	-----	-----	-----	-----
11	3.2	3.6	4.4	4.1	3.3	3.6	2.2	2.3	-----	-----	-----	-----
12	3.0	2.3	4.1	4.0	4.4	5.2	2.0	2.4	-----	-----	-----	-----
13	2.9	3.1	3.9	3.8	4.2	7.9	2.0	2.7	-----	-----	-----	-----
14	4.0	4.0	3.6	3.6	3.8	8.2	1.9	2.1	-----	-----	-----	-----
15	4.3	4.1	5.9	3.5	3.4	5.8	1.7	2.0	-----	-----	-----	-----
16	3.9	5.2	11.2	3.4	3.1	4.6	1.4	2.1	-----	-----	-----	-----
17	3.3	8.4	12.5	3.3	3.0	3.1	1.1	2.4	-----	-----	-----	-----
18	3.2	9.3	7.8	3.1	2.7	2.9	1.4	2.0	-----	-----	-----	-----
19	3.0	9.2	7.2	3.1	2.8	2.6	1.6	1.8	-----	-----	-----	-----
20	2.7	9.2	13.0	3.0	2.6	2.5	1.6	1.7	-----	-----	-----	-----
21	2.5	9.6	17.0	3.0	2.5	2.4	1.5	1.3	-----	-----	-----	-----
22	2.3	9.4	13.3	3.0	2.5	2.3	1.5	1.1	-----	-----	-----	-----
23	2.2	5.3	6.6	3.0	2.4	2.2	1.4	1.1	-----	-----	-----	-----
24	2.0	5.2	4.8	2.9	2.7	2.1	1.7	1.0	-----	-----	-----	-----
25	1.9	4.6	4.5	2.8	2.8	2.1	1.9	0.9	-----	-----	-----	-----
26	2.5	3.8	4.3	3.7	2.5	2.0	2.2	0.8	-----	-----	-----	-----
27	2.0	4.1	3.8	4.2	2.4	2.6	2.4	0.8	-----	-----	-----	-----
28	1.9	4.3	4.7	3.7	2.3	3.6	4.5	4.3	-----	-----	-----	-----
29	1.7	-----	5.8	3.3	2.2	2.8	3.7	4.6	-----	-----	-----	-----
30	1.6	-----	6.5	3.0	3.0	3.2	3.5	3.3	-----	-----	-----	-----
31	1.5	-----	5.0	-----	4.9	-----	3.5	3.0	-----	-----	-----	-----

DAILY RIVER STAGES.

Roanoke River system—Roanoke River, Weldon, N. C.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			3.3	21.9	3.0	2.8	6.0	2.5				
2			4.2	29.2	18.3	2.7	3.6	2.5				
3			4.7	31.2	11.5	2.7	2.5	2.6				
4			4.2	30.8	13.7	2.6	2.2	2.4				
5			3.5	23.1	12.0	2.4	1.8	2.1				
6		22.0	3.0	17.6	9.0	2.6	4.8	2.1				
7		29.4	2.8	13.3	5.4	5.7	12.1	2.0				
8		29.3	2.7	10.2	4.2	4.8	19.6	1.8				
9		27.5	2.6	7.7	3.6	3.3	33.5	1.6				
10			2.5	6.5	3.4	3.3	34.1	1.5				
11			2.5	5.7	3.3	4.6	37.0	1.6				
12			2.7	5.4	2.7	4.5	41.8	1.3				
13			2.8	5.2	2.5	3.8	40.7	4.1				
14			4.1	5.8	2.4	3.0	32.1	4.2				
15			4.2	4.4	2.3	2.4	24.0	2.9				
16			3.6	4.2	2.4	4.7	18.2	2.3				
17			3.4	4.1	2.3	4.2	14.3	1.8				
18			4.1	4.0	2.2	4.0	11.5	1.5				
19			4.3	3.9	2.2	4.6	9.6	4.0				
20			6.8	3.5	2.2	3.9	7.3	2.4				
21			9.2	3.3	2.4	3.3	5.2	1.8				
22			11.8	3.3	9.3	2.7	4.9	1.7				
23			9.5	3.0	10.6	3.9	5.0	1.5				
24			6.8	3.1	12.0	5.3	4.4	1.3				
25			5.5	3.3	9.5	3.9	5.0	2.9				
26			5.2	3.2	6.1	3.5	4.3	1.7				
27			5.7	4.7	5.8	4.2	3.5	1.5				
28			5.7	5.1	4.9	6.0	3.0	2.0				
29			5.1	4.0	7.2	8.0	2.9	2.0				
30			5.0	3.3	5.7	6.7	2.7	1.5				
31			6.2		3.4		2.6	1.3				

1897.

1			21.5	6.0	4.4	4.2	2.8	2.7				
2			13.0	5.9	4.8	4.3	2.8	2.5				
3			10.5	5.8	6.3	5.4	3.9	2.3				
4			9.2	5.6	15.6	3.8	9.2	2.3				
5			8.0	6.0	13.3	3.7	3.5	2.4				
6			6.8	7.9	9.3	3.7	3.0	1.7				
7			15.2	9.4	7.3	5.6	2.7	1.4				
8			21.3	10.8	6.2	6.1	2.7	1.3				
9			22.7	8.8	5.6	4.8	5.2	1.6				
10			19.9	13.6	5.0	4.0	5.1	1.9				
11			17.7	19.6	4.8	4.7	3.6	2.2				
12			18.7	13.8	4.7	4.4	3.6	3.4				
13			23.2	10.1	5.5	3.9	3.5	2.0				
14			24.0	7.9	11.3	3.6	3.5	1.8				
15			27.0	5.9	17.1	3.3	5.7	1.8				
16			26.9	6.4	18.3	3.2	6.0	1.7				
17			24.5	6.2	14.2	3.2	3.3	1.5				
18			21.3	6.3	9.9	3.1	2.7	0.9				
19			17.8	6.3	6.9	3.0	2.7	2.7				
20			15.5	6.0	6.0	3.4	3.4	1.8				
21			14.3	6.4	5.3	6.7	6.7	1.7				
22			14.1	6.0	4.9	10.8	8.0	1.5				
23			13.4	5.5	5.2	5.9	7.9	2.0				
24			10.9	4.9	5.1	3.7	5.1	2.2				
25			9.4	4.8	5.0	3.3	4.2	4.0				
26			8.5	4.8	6.8	3.1	3.5	2.8				
27			7.9	4.7	9.4	3.7	3.4	2.0				
28			6.9	4.6	7.1	3.5	3.4	1.6				
29			6.5	4.6	5.0	3.4	3.3	1.6				
30			6.3	4.6	4.4	3.1	3.4	1.6				
31			6.1		4.4		3.3	1.4				

DAILY RIVER STAGES.

387

Roanoke River system—Roanoke River, Weldon, N. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			2.6	10.0	3.4	3.8	1.5	5.3				
2			2.5	12.8	2.9	4.6	1.4	4.5				
3			2.5	10.4	2.0	4.0	1.1	4.4				
4			2.6	8.0	2.0	3.2	0.9	3.4				
5			2.9	6.4	2.0	2.1	0.7	3.9				
6			10.0	7.5	3.1	2.4	1.0	1.8				
7			7.4	11.9	6.5	1.5	0.5	3.0				
8			4.8	11.9	18.6	1.5	1.5	4.8				
9			4.1	8.9	21.5	1.0	1.4	4.1				
10			3.6	6.6	18.7	0.5	2.2	3.8				
11			3.0	5.5	17.5	0.3	3.5	3.8				
12			2.7	4.9	14.5	0.2	3.4	2.5				
13			2.6	4.8	10.5	0.1	3.1	3.9				
14			2.6	6.1	6.0	0.0	2.5	4.4				
15			3.1	5.8	5.8	2.5	1.0	6.5				
16			2.5	5.4	6.9	2.8	0.8	8.1				
17			2.4	6.0	8.3	5.0	1.0	10.4				
18			2.4	5.0	8.8	7.5	4.0	5.4				
19			2.1	5.1	4.8	10.2	4.4	3.8				
20			2.2	3.9	4.0	12.1	4.8	4.4				
21			2.1	3.8	4.0	12.6	4.8	3.0				
22			1.8	2.2	3.1	11.3	4.0	7.5				
23			1.8	2.1	4.8	7.0	2.5	5.0				
24			1.6	3.4	6.8	4.1	2.6	3.1				
25			1.5	3.0	23.5	3.2	3.4	2.5				
26			1.6	5.9	18.5	2.0	4.8	1.9				
27			2.3	7.2	15.0	2.0	4.8	2.5				
28			2.9	5.7	11.5	1.8	3.5	2.6				
29			3.2	4.6	7.0	1.9	3.4	2.8				
30			3.4	3.6	5.6	1.9	4.8	2.7				
31			7.9		4.8		5.3	3.4				

1899.

1				15.5	8.8	9.4	9.5	8.8	9.2	7.7	8.7	8.1
2				13.2	8.7	10.1	8.5	9.0	8.3	7.6	12.6	8.1
3				11.8	8.6	11.8	8.2	8.8	7.9	7.6	11.0	8.0
4				10.9	8.6	10.0	8.1	8.3	7.8	7.5	11.3	8.1
5				10.6	8.5	8.6	8.0	8.0	8.9	7.5	13.8	8.0
6				10.9	8.5	8.0	8.4	8.0	8.4	8.1	11.8	8.0
7				11.2	8.4	7.8	9.3	8.1	7.9	9.1	9.7	7.9
8				14.6	8.5	7.7	9.2	8.5	7.7	9.1	8.8	7.9
9				25.8	8.8	7.5	11.3	9.1	7.5	9.2	8.5	7.8
10				26.3	9.7	7.5	10.4	9.0	7.8	10.4	8.3	7.8
11				19.4	9.9	8.5	9.0	8.2	8.5	9.6	8.2	7.8
12				15.4	10.1	9.9	8.4	8.1	8.4	8.7	8.1	7.8
13				12.9	11.4	20.4	8.1	9.8	8.6	8.2	8.0	8.0
14				11.7	10.0	27.5	7.9	8.4	8.0	8.1	8.0	11.9
15				10.9	10.1	24.6	7.8	8.0	7.7	8.0	8.0	11.6
16				9.8	9.9	19.5	7.8	8.0	7.6	7.9	8.0	9.8
17				10.0	9.5	15.0	7.4	12.4	7.5	7.8	7.9	8.8
18				9.7	9.0	11.0	7.9	9.3	7.4	7.8	7.9	8.5
19				9.5	8.2	9.2	8.0	8.4	7.3	7.8	7.9	8.2
20				9.4	8.2	8.7	8.3	7.9	7.3	7.7	7.9	8.2
21				9.2	8.2	8.6	8.6	7.9	7.6	7.8	7.8	8.1
22				9.2	8.1	8.5	8.0	7.7	15.5	7.7	7.8	8.0
23				9.1	7.9	8.4	7.9	7.6	11.1	7.7	7.9	8.0
24				8.9	8.0	8.2	8.1	7.5	8.8	7.6	7.9	8.4
25				8.8	8.3	8.2	8.1	7.5	8.1	7.6	8.0	9.4
26				8.7	8.3	8.0	8.1	7.4	8.1	7.6	8.1	9.4
27				9.9	8.1	8.0	9.0	7.3	8.3	7.6	8.1	9.2
28				10.2	8.0	8.8	9.0	7.2	8.5	7.6	8.1	8.8
29				10.0	7.8	9.1	13.1	13.4	8.2	7.6	7.9	8.3
30				9.3	7.8	8.9	10.5	13.1	7.9	7.7	7.9	7.7
31					8.6		9.1	11.0		7.9		6.9

DAILY RIVER STAGES.

Roanoke River system—Dan River, Danville, Va.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			0.3	2.8	0.3	0.3	0.2	-0.2				
2			0.1	4.8	0.3	0.2	0.1	-0.3				
3			0.1	4.0	0.7	0.2	1.2	-0.3				
4			0.1	2.6	0.9	0.2	0.7	-0.3				
5			0.1	0.8	0.6	0.6	0.5	-0.4				
6		3.4	0.0	0.5	0.3	0.4	1.1	-0.4				
7		3.9	0.0	0.3	0.2	0.3	1.5	-0.4				
8		1.3	0.0	0.3	0.2	0.2	2.1	-0.4				
9			0.1	0.2	0.1	0.2	9.5	-0.4				
10			0.1	0.2	0.1	0.2	10.1	-0.4				
11			0.1	0.2	0.1	0.1	5.2	-0.2				
12			0.2	0.1	0.1	0.1	3.8	0.2				
13			0.2	0.1	0.0	0.1	0.9	0.2				
14			0.1	0.0	0.0	0.4	0.6	0.1				
15			0.1	0.0	0.0	0.4	0.3	0.1				
16			0.1	-0.1	0.0	0.2	0.2	0.1				
17			0.0	-0.1	-0.1	0.2	0.9	0.0				
18			0.1	-0.1	-0.1	0.1	1.2	0.0				
19			0.4	-0.1	-0.1	0.1	0.8	0.0				
20			0.4	-0.2	-0.1	0.1	0.7	-0.1				
21			0.2	-0.2	0.8	0.1	0.4	-0.1				
22			0.2	-0.2	0.6	0.3	0.2	-0.1				
23			0.1	-0.2	0.5	0.4	0.1	-0.1				
24			0.1	-0.3	0.3	0.3	0.1	-0.2				
25			0.9	0.8	0.2	0.6	0.0	-0.2				
26			0.7	0.6	0.2	0.4	0.0	-0.2				
27			0.4	0.5	0.5	0.4	0.0	-0.3				
28			0.3	0.3	0.3	0.4	-0.1	-0.3				
29			0.5	0.2	0.2	0.3	-0.1	-0.3				
30			0.9	0.2	0.2	0.2	-0.2	-0.3				
31			1.4		0.4		-0.2	-0.3				

1897.

1			0.8	0.1	0.4	0.2	0.1	0.0				
2			0.5	0.1	1.8	0.1	0.1	0.0				
3			0.4	0.1	1.0	0.1	0.0	-0.1				
4			0.3	0.1	0.7	0.1	0.0	-0.1				
5			0.3	0.3	0.5	0.4	-0.1	-0.1				
6			3.8	0.7	0.3	0.6	-0.1	-0.1				
7			2.2	0.4	0.2	0.3	-0.2	-0.1				
8			1.4	0.3	0.2	0.2	0.1	-0.1				
9			0.7	1.7	0.1	0.1	0.5	-0.2				
10			1.7	1.2	0.1	0.3	0.3	-0.2				
11			1.4	0.7	0.1	0.2	0.2	-0.1				
12			0.8	0.4	0.1	0.1	0.2	-0.1				
13			0.6	0.3	1.5	0.1	0.1	-0.1				
14			0.5	0.2	1.0	0.0	0.1	-0.2				
15			2.5	0.2	0.9	0.0	0.1	-0.2				
16			1.4	0.8	0.8	-0.1	0.0	-0.2				
17			0.9	0.9	0.5	-0.1	0.0	-0.2				
18			0.5	0.6	0.3	-0.1	-0.1	0.1				
19			0.8	0.3	0.2	-0.1	-0.1	0.0				
20			1.4	0.3	0.2	-0.1	0.1	0.0				
21			0.9	0.2	0.1	0.0	0.8	-0.1				
22			0.9	0.2	0.2	0.0	0.4	0.0				
23			0.7	0.1	0.4	0.1	0.2	0.0				
24			0.5	0.1	0.9	0.0	0.4	0.0				
25			0.4	0.1	1.8	0.4	0.3	-0.1				
26			0.4	0.1	1.7	0.2	0.1	-0.1				
27			0.3	0.2	0.7	0.5	0.3	-0.1				
28			0.5	0.1	0.5	0.4	0.2	-0.2				
29			0.3	0.1	0.3	0.2	0.1	-0.2				
30			0.2	0.1	0.2	0.1	0.0	-0.2				
31			0.2		0.2		0.0	0.0				

DAILY RIVER STAGES.

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Roanoke River system—Dan River, Danville, Va.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			-0.3	0.5	0.0	0.2	0.0	0.2				
2			-0.3	0.3	0.0	0.2	0.0	0.1				
3			-0.3	0.2	0.0	0.1	0.1	0.0				
4			0.0	0.1	-0.1	0.1	0.2	0.0				
5			0.2	0.8	-0.1	0.0	0.2	0.0				
6			0.3	0.8	-0.1	0.0	0.7	0.0				
7			0.3	0.4	0.7	-0.1	0.4	0.0				
8			0.2	0.2	0.8	-0.1	0.2	0.0				
9			0.0	0.2	0.3	-0.1	0.1	0.0				
10			0.0	0.1	0.2	-0.2	0.3	0.2				
11			-0.1	0.1	0.1	-0.2	0.2	0.1				
12			-0.1	0.0	0.0	0.1	0.1	0.4				
13			-0.2	0.0	0.0	0.1	0.0	1.3				
14			-0.2	0.0	0.0	0.0	0.0	1.9				
15			-0.2	0.2	-0.1	0.0	0.4	0.6				
16			-0.2	0.3	-0.1	0.7	0.5	0.3				
17			-0.2	0.3	0.1	1.4	0.5	0.1				
18			-0.2	0.1	0.3	1.8	0.3	0.0				
19			-0.3	0.1	0.1	1.0	0.1	0.1				
20			-0.3	0.0	0.1	0.7	0.0	0.6				
21			-0.3	0.0	0.0	0.3	0.0	0.3				
22			-0.3	0.0	0.3	0.2	0.1	0.2				
23			-0.3	-0.1	4.6	0.1	0.4	0.1				
24			-0.3	0.3	2.8	0.1	0.2	0.0				
25			-0.3	0.7	1.0	0.0	0.1	0.0				
26			-0.3	0.4	0.4	0.2	0.0	0.1				
27			-0.3	0.3	0.2	0.1	0.0	0.1				
28			-0.4	0.2	0.5	0.1	0.3	0.0				
29			-0.4	0.1	0.4	0.1	0.4	0.0				
30			0.6	0.1	0.2	0.0	0.2	0.4				
31			2.2		0.5		0.1	0.7				

1899.

1			0.8	0.8	0.2	0.2	0.2	0.1				
2			0.7	1.1	0.2	0.2	0.1	0.1				
3			1.1	1.0	0.1	0.1	0.1	0.0				
4			4.0	0.8	0.0	0.1	0.1	0.0				
5			4.4	1.3	0.0	0.0	0.3	-0.1				
6			3.6	1.2	0.0	0.0	0.5	0.2				
7			0.9	0.9	0.0	0.0	0.3	0.1				
8			0.6	5.5	0.6	-0.1	0.1	0.0				
9			0.3	2.0	0.8	-0.1	0.2	0.0				
10			0.2	1.2	0.4	0.6	0.1	0.0				
11			0.1	1.4	0.4	1.4	0.0	-0.1				
12			0.1	1.1	0.3	1.8	0.0	-0.1				
13			0.0	0.9	0.4	3.4	0.0	-0.1				
14			0.2	0.7	0.3	2.4	-0.1	-0.2				
15			4.4	0.4	0.2	1.3	-0.1	0.4				
16			7.3	0.3	0.2	0.5	-0.1	0.2				
17			1.9	0.2	0.1	0.2	0.1	0.1				
18			1.1	0.2	0.1	0.1	0.2	0.0				
19			10.3	0.1	0.1	0.1	0.4	0.0				
20			13.1	0.1	0.1	0.0	0.3	-0.1				
21			3.5	0.0	0.0	0.0	0.1	-0.1				
22			1.5	0.0	0.0	0.0	0.0	0.1				
23			1.2	0.0	0.2	-0.1	0.0	0.1				
24			1.8	0.0	0.4	-0.1	0.0	0.0				
25			1.1	-0.1	0.2	-0.2	-0.1	-0.1				
26			0.6	0.6	0.2	0.0	0.3	-0.1				
27			0.8	0.9	0.1	0.4	0.8	-0.1				
28			1.6	0.5	0.1	0.3	0.5	0.6				
29			2.4	0.3	0.0	0.3	0.3	0.3				
30			1.7	0.2	0.5	0.6	0.2	0.1				
31			1.1		0.3		0.1	0.1				

DAILY RIVER STAGES.

*Sacramento River system—Sacramento River, Redbluff, Cal.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.0	10.7	3.4	7.4	9.7	6.1	2.4	0.7	0.4	0.4	0.8	3.6
2	1.0	8.9	3.4	6.9	9.2	5.9	2.3	0.7	0.4	0.4	0.7	4.5
3	1.0	7.9	3.3	6.3	9.1	5.9	2.3	0.7	0.4	0.4	0.6	4.8
4	1.0	6.9	3.0	6.6	16.9	5.8	2.2	0.6	0.4	0.4	0.5	4.0
5	1.0	6.2	3.1	5.8	15.3	5.8	2.1	0.6	0.4	0.4	0.5	3.9
6	1.0	5.9	3.8	7.2	12.6	5.8	1.9	0.6	0.3	0.3	0.5	4.2
7	1.0	5.2	5.5	9.0	10.9	5.5	1.9	0.5	0.3	0.3	0.5	4.2
8	1.0	4.9	5.8	8.5	9.8	5.4	1.8	0.5	0.3	0.3	0.4	4.0
9	1.0	4.7	6.2	7.1	9.1	5.2	1.7	0.5	0.3	0.3	0.8	4.0
10	1.0	4.6	5.4	7.3	8.4	4.8	1.7	0.5	0.3	0.3	0.8	4.0
11	1.0	4.2	4.9	6.9	11.5	4.4	1.7	0.5	0.3	0.3	0.8	4.6
12	1.0	4.1	4.4	6.4	9.8	4.2	1.7	0.5	0.3	0.3	0.7	4.8
13	1.0	4.0	4.4	6.1	8.8	4.2	1.6	0.4	0.3	0.3	0.6	6.2
14	3.2	3.8	4.4	7.2	8.1	4.2	1.6	0.4	0.3	0.3	0.6	10.6
15	7.2	3.8	4.2	6.5	7.6	4.2	1.6	0.4	0.3	0.3	0.6	20.6
16	11.6	3.7	4.0	6.1	7.2	4.0	1.5	0.4	0.3	0.3	1.2	14.4
17	23.5	3.4	4.0	5.7	6.8	3.9	1.5	0.4	0.3	0.3	6.6	9.7
18	23.0	3.2	3.9	5.4	6.5	3.8	1.5	0.4	0.3	0.3	5.2	9.2
19	22.3	3.1	3.9	5.5	6.2	3.6	1.4	0.4	0.3	0.3	3.0	8.3
20	20.9	3.0	4.0	5.2	5.9	3.4	1.3	0.4	0.6	0.3	2.4	7.3
21	22.4	2.9	6.6	5.1	5.8	3.3	1.3	0.4	0.6	0.3	2.8	7.1
22	19.0	2.9	7.3	5.2	8.3	3.2	1.2	0.4	0.6	0.3	5.9	7.1
23	14.8	2.9	9.9	5.5	8.1	3.1	1.2	0.4	0.6	0.3	6.7	7.6
24	13.2	2.7	11.9	13.7	7.4	2.9	1.1	0.4	0.5	0.3	12.5	9.4
25	19.6	2.7	13.1	15.3	6.6	2.9	1.1	0.4	0.5	0.3	7.6	8.2
26	16.0	2.7	13.6	13.5	6.9	2.8	1.1	0.4	0.4	0.3	3.9	10.4
27	24.1	2.7	15.5	12.7	6.8	2.7	1.0	0.4	0.4	1.3	3.2	11.6
28	19.9	2.8	13.0	11.4	6.9	2.7	1.0	0.3	0.4	0.9	2.7	16.4
29	16.1	2.8	10.4	9.5	6.9	2.6	0.9	0.3	0.4	0.7	3.3	15.2
30	12.0	-----	8.5	9.2	6.8	2.5	0.9	0.3	0.4	0.7	3.3	10.8
31	9.4	-----	8.2	-----	6.5	-----	0.8	0.5	-----	0.6	-----	9.4

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1	7.2	16.0	13.6	7.9	6.0	2.3	1.0	0.1	0.6	0.0	0.3	0.4
2	6.1	15.6	11.0	7.6	6.1	2.3	1.0	0.1	0.7	0.2	0.3	0.4
3	5.7	14.0	8.6	7.4	6.9	2.3	1.0	0.1	0.3	0.3	0.5	0.6
4	5.2	17.7	8.4	6.5	6.8	2.0	1.0	0.1	0.2	0.2	0.5	0.7
5	4.9	20.7	8.0	6.1	6.8	2.0	1.0	0.1	0.1	0.1	0.5	1.3
6	4.4	21.6	7.8	6.1	6.6	2.0	0.9	0.1	0.1	0.1	0.4	3.2
7	4.3	15.5	7.8	5.8	6.3	1.9	0.9	0.1	0.1	0.1	0.3	3.4
8	4.1	13.2	7.0	7.1	5.9	1.9	0.9	0.1	0.1	0.1	0.3	7.2
9	3.9	11.6	6.0	7.0	5.0	1.7	0.9	0.1	0.1	0.1	0.3	6.5
10	3.6	10.0	7.6	7.4	5.0	1.7	0.8	0.1	0.1	0.0	0.3	5.3
11	3.4	9.6	6.0	7.8	5.0	1.6	0.7	0.1	0.1	0.0	0.3	4.4
12	3.0	8.6	6.0	8.0	5.0	1.5	0.7	0.1	0.1	0.1	0.3	5.0
13	3.2	7.5	6.0	8.0	4.9	1.3	0.7	0.1	0.1	0.3	0.3	4.9
14	3.0	7.0	5.6	7.8	4.9	1.0	0.6	0.1	0.1	0.5	0.3	3.9
15	3.1	7.1	5.2	8.0	4.8	1.0	0.5	0.1	0.1	0.4	0.3	4.0
16	2.4	8.5	5.0	8.0	4.6	1.0	0.5	0.1	0.1	0.3	0.4	2.0
17	2.2	8.2	5.0	8.1	4.3	1.0	0.5	0.1	0.1	0.2	0.4	1.9
18	2.1	7.4	5.3	8.1	4.2	1.0	0.3	0.1	0.0	0.1	0.6	1.6
19	2.1	10.0	5.3	8.1	4.2	1.8	0.3	0.1	0.0	0.1	0.8	1.6
20	2.0	11.0	5.1	8.0	4.0	2.0	0.2	0.1	0.0	0.2	1.0	1.4
21	2.0	7.6	4.9	8.0	4.0	2.9	0.2	0.1	0.0	0.4	1.3	1.0
22	2.0	6.7	4.6	8.0	4.0	1.9	0.2	0.1	0.0	1.0	1.4	1.0
23	2.0	6.0	5.0	7.6	4.1	2.0	0.1	0.1	0.0	1.2	0.9	1.0
24	2.0	5.9	5.2	7.4	4.1	2.0	0.1	0.1	0.0	1.0	0.9	1.0
25	2.0	5.8	6.1	7.1	4.1	1.4	0.1	0.1	0.0	1.0	0.4	1.0
26	2.0	5.9	6.1	7.0	4.1	1.4	0.1	0.1	0.0	0.8	0.4	1.0
27	2.0	5.6	8.6	6.9	3.8	1.0	0.1	0.1	0.0	0.7	0.4	1.0
28	2.4	6.9	10.7	6.8	3.7	1.0	0.1	0.0	0.0	0.6	0.4	1.0
29	14.0	-----	9.0	6.6	3.7	1.0	0.1	0.0	0.0	0.5	0.4	1.0
30	11.1	-----	8.6	6.0	3.7	1.0	0.1	0.0	0.0	0.5	0.4	1.0
31	10.0	-----	8.1	-----	3.7	-----	0.1	0.0	-----	0.3	-----	0.9

DAILY RIVER STAGES.

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Sacramento River system—Sacramento River, Redbluff, Cal.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.9	0.4	9.3	1.0	1.0	1.0	0.1	-0.6	-0.8	-0.7	-0.6	0.6
2	0.9	0.4	5.8	1.0	1.0	0.8	0.1	-0.6	-0.8	-0.6	-0.6	0.0
3	1.0	0.4	5.0	1.0	0.8	0.8	0.1	-0.6	-0.8	-0.6	-0.6	0.0
4	1.0	0.6	4.8	1.0	0.6	0.7	0.0	-0.6	-0.8	-0.6	-0.6	0.0
5	1.0	0.6	4.5	1.0	0.5	0.6	0.0	-0.6	-0.8	-0.6	-0.7	-0.2
6	0.9	4.0	4.1	1.0	0.3	0.6	0.0	-0.6	-0.8	-0.6	-0.7	-0.2
7	0.9	10.0	3.7	1.2	0.3	0.6	0.0	-0.6	-0.8	-0.5	-0.5	-0.3
8	0.8	8.9	3.4	1.2	0.2	0.5	0.0	-0.6	-0.8	-0.5	-0.4	-0.3
9	0.8	4.0	3.2	1.2	0.2	0.5	-0.1	-0.6	-0.8	-0.5	-0.4	-0.3
10	0.8	3.6	3.0	1.2	0.2	0.5	-0.1	-0.7	-0.8	-0.5	-0.4	-0.4
11	0.8	3.6	3.0	1.2	0.2	0.6	-0.1	-0.7	-0.8	-0.6	-0.4	-0.4
12	0.8	3.6	2.9	1.2	0.2	0.8	-0.1	-0.7	-0.8	-0.6	-0.4	-0.4
13	0.9	3.6	2.0	1.2	0.2	0.5	-0.2	-0.7	-0.8	-0.6	-0.3	-0.2
14	0.9	3.4	1.9	1.2	0.4	0.4	-0.2	-0.7	-0.8	-0.5	-0.3	-0.1
15	1.2	3.0	1.9	1.2	1.3	0.4	-0.2	-0.7	-0.7	-0.5	-0.1	0.1
16	1.0	3.0	1.9	1.2	2.6	0.4	-0.2	-0.7	-0.6	-0.6	-0.1	0.2
17	0.8	3.0	1.9	1.2	2.4	0.3	-0.2	-0.7	-0.7	-0.6	-0.2	0.0
18	0.8	3.0	1.7	1.2	2.0	0.3	-0.3	-0.7	-0.7	-0.7	-0.1	-0.3
19	0.7	3.0	1.7	1.2	1.4	0.3	-0.3	-0.7	-0.8	-0.7	0.0	-0.2
20	0.7	3.0	1.7	1.2	1.6	0.3	-0.3	-0.7	-0.8	-0.6	0.0	-0.2
21	0.7	4.1	1.7	1.2	2.0	0.3	-0.4	-0.7	-0.8	-0.6	0.0	-0.1
22	0.7	3.6	1.6	1.2	3.2	0.2	-0.4	-0.7	-0.8	-0.6	0.0	-0.3
23	0.5	3.2	1.3	1.2	2.3	0.2	-0.4	-0.7	-0.7	-0.6	-0.1	-0.3
24	0.5	3.2	1.3	1.2	1.9	0.2	-0.4	-0.7	-0.7	-0.5	-0.1	-0.5
25	0.5	3.2	1.2	1.2	1.6	0.2	-0.4	-0.7	-0.7	-0.4	0.0	-0.5
26	0.5	4.0	1.0	1.1	1.0	0.1	-0.5	-0.8	-0.6	-0.5	0.0	-0.6
27	0.5	4.7	0.9	1.1	1.0	0.1	-0.5	-0.8	-0.6	-0.6	0.2	-0.6
28	0.5	12.0	0.9	1.1	1.2	0.1	-0.6	-0.8	-0.7	-0.6	0.3	-0.6
29	0.5	-----	0.9	1.1	1.2	0.1	-0.6	-0.8	-0.7	-0.6	0.8	-0.6
30	0.4	-----	0.9	1.1	1.2	0.1	-0.6	-0.8	-0.7	-0.6	1.2	-0.6
31	0.4	-----	0.9	-----	1.2	-----	-0.6	-0.8	-----	-0.6	-----	-0.6

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1	0.4	3.2	2.3	6.0	4.8	4.6	0.8	-0.8	-0.9	-0.9	0.0	8.6
2	1.3	3.2	4.4	5.7	4.8	3.4	0.7	-0.8	-0.9	-0.9	0.4	7.3
3	0.7	3.0	5.3	5.4	4.3	2.9	0.5	-0.8	-0.9	-0.9	0.6	6.6
4	0.6	2.6	5.0	4.9	4.0	2.2	0.4	-0.8	-0.9	-0.9	0.4	6.2
5	0.4	2.4	4.2	4.4	4.0	2.2	0.4	-0.8	-0.9	-0.9	1.0	6.9
6	0.5	1.7	3.6	4.2	3.6	2.2	0.4	-0.8	-0.9	-0.9	1.2	6.9
7	1.2	1.2	3.6	4.2	3.4	1.9	0.3	-0.8	-0.9	-0.9	1.2	6.3
8	1.5	0.8	3.4	3.8	3.0	1.9	0.0	-0.8	-0.9	-0.9	0.9	5.8
9	1.0	0.8	3.4	3.8	2.8	1.8	0.0	-0.8	-0.9	-0.9	1.6	5.2
10	11.2	0.6	3.4	3.6	2.6	1.8	0.0	-0.8	-0.9	-0.9	4.8	5.0
11	7.2	0.8	3.4	3.4	2.6	1.8	0.0	-0.8	-0.9	-0.8	10.6	4.8
12	5.4	1.2	3.4	3.4	2.6	1.8	-0.1	-0.8	-0.9	-0.7	7.8	4.4
13	3.6	1.4	3.7	3.6	2.6	1.7	-0.1	-0.8	-0.9	-0.7	6.2	3.2
14	4.7	2.1	4.2	3.9	2.1	1.7	-0.2	-0.8	-0.9	-0.3	4.0	3.6
15	13.0	3.2	4.6	4.2	1.8	1.7	-0.3	-0.8	-0.9	-0.6	3.7	12.3
16	13.5	3.2	13.0	4.2	1.8	1.7	-0.3	-0.8	-0.9	-0.7	4.3	8.8
17	5.2	3.6	10.8	4.4	1.6	1.6	-0.3	-0.8	-0.9	-0.4	8.7	8.8
18	9.6	3.6	9.4	4.2	1.6	1.5	-0.3	-0.8	-0.9	-0.2	5.3	8.2
19	8.4	3.6	6.8	4.2	1.8	1.4	-0.3	-0.8	-0.9	0.1	4.4	6.4
20	5.4	3.6	7.4	4.8	1.7	1.2	-0.4	-0.8	-0.9	3.8	4.1	4.3
21	5.4	4.1	5.0	4.7	1.4	1.2	-0.4	-0.8	-0.9	4.0	5.2	4.0
22	4.9	4.1	4.8	4.6	1.4	1.2	-0.4	-0.8	-0.9	3.2	5.8	3.8
23	4.9	3.6	11.8	4.3	1.4	1.1	-0.4	-0.8	-0.9	2.4	5.8	3.6
24	4.6	3.4	16.0	4.0	1.3	1.1	-0.4	-0.8	-0.9	1.6	4.7	3.4
25	4.2	3.1	20.4	3.7	1.3	1.0	-0.5	-0.9	-0.9	1.2	4.2	3.4
26	4.0	2.2	13.1	3.6	1.3	1.0	-0.5	-0.9	-0.9	0.9	5.4	3.4
27	4.4	1.7	10.0	3.7	1.4	1.0	-0.5	-0.9	-0.9	0.7	6.6	3.4
28	3.8	1.7	8.3	4.2	1.1	1.0	-0.5	-0.9	-0.9	0.4	13.0	3.6
29	3.7	-----	8.0	4.6	1.0	0.9	-0.6	-0.9	-0.9	0.0	12.6	3.8
30	3.5	-----	7.2	4.8	0.9	0.9	-0.8	-0.9	-0.9	0.1	10.4	5.4
31	3.7	-----	6.8	-----	1.0	-----	-0.8	-0.9	-----	0.1	-----	5.7

¹21.5 at 11 a. m.

DAILY RIVER STAGES.

Sacramento River system—Sacramento River, Sacramento, Cal.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.4	25.7	15.7	21.8	21.8	22.3	18.2	11.5	9.2	9.0	9.4	15.2
2	9.4	25.4	15.8	21.5	21.8	22.0	17.8	11.4	9.7	9.0	9.3	15.0
3	9.4	24.9	16.0	21.5	21.8	22.2	17.4	11.3	9.8	8.9	9.2	14.8
4	9.4	24.4	15.8	21.3	22.0	22.1	17.3	11.2	9.7	8.9	9.1	14.8
5	9.4	23.8	15.7	21.0	22.0	22.1	17.2	11.1	9.7	8.8	9.1	14.7
6	9.4	23.5	15.6	21.5	22.0	22.1	16.9	11.0	9.6	8.8	9.1	14.5
7	9.4	22.8	15.6	21.9	22.5	22.0	16.7	10.9	9.6	8.8	8.9	14.3
8	9.4	22.0	15.6	21.5	22.3	21.9	16.4	10.8	9.5	8.8	8.8	14.2
9	9.4	21.5	15.6	21.5	22.5	22.0	16.2	10.7	9.4	8.7	8.8	14.0
10	9.4	21.0	15.6	21.8	22.2	22.1	15.9	10.6	9.4	8.7	10.0	13.8
11	9.4	20.5	15.6	21.7	22.0	22.0	15.5	10.6	9.3	8.7	10.8	13.7
12	9.4	20.0	15.9	21.5	22.5	21.8	15.2	10.5	9.3	8.6	10.3	13.6
13	9.4	19.7	16.0	21.0	22.7	21.6	15.0	10.5	9.3	8.5	10.0	13.6
14	9.6	19.0	15.9	21.5	22.8	21.5	14.8	10.4	9.2	8.5	10.0	16.3
15	10.0	18.6	16.2	21.4	22.5	21.5	14.5	10.4	9.2	8.5	10.0	16.3
16	11.6	18.0	16.5	21.3	22.0	21.4	14.2	10.4	9.0	8.5	10.5	16.6
17	18.0	17.6	17.5	21.3	21.9	21.4	14.0	10.4	9.0	8.5	11.0	16.7
18	19.9	17.4	17.5	21.3	21.8	21.3	13.9	10.4	9.0	8.5	11.8	16.9
19	20.2	17.0	16.9	21.2	21.8	21.0	13.7	10.4	9.0	8.5	13.5	16.9
20	19.9	16.8	17.6	21.1	21.6	20.8	13.4	10.3	9.2	8.5	13.0	17.0
21	22.0	16.6	18.6	20.9	21.5	20.5	13.2	10.2	9.4	8.5	13.4	17.5
22	23.5	16.4	19.0	20.7	21.5	20.0	12.9	10.1	9.6	8.5	13.8	17.5
23	24.5	16.2	19.0	20.5	21.5	19.8	12.7	10.1	9.6	8.5	14.8	17.3
24	25.0	16.0	18.9	20.8	21.5	19.4	12.5	10.1	9.5	8.5	19.0	17.0
25	25.4	15.8	19.3	21.8	21.5	19.3	12.3	10.0	9.4	8.5	18.6	16.8
26	25.6	15.7	19.6	22.0	21.8	19.1	12.2	9.9	9.4	8.5	17.5	16.6
27	26.0	15.7	20.2	22.2	21.8	18.8	12.1	9.8	9.3	8.7	16.8	16.6
28	26.3	15.7	20.4	22.0	21.8	18.6	12.0	9.7	9.3	9.0	16.1	16.8
29	26.6	15.7	21.0	21.9	22.0	18.5	11.9	9.5	9.2	9.2	15.8	17.0
30	26.3	-----	21.8	21.8	22.2	18.5	11.8	9.4	9.1	9.6	15.5	16.8
31	26.0	-----	21.8	-----	22.4	-----	11.7	9.2	-----	9.4	-----	17.6

1897.

1	17.6	20.8	20.4	19.9	22.0	19.6	13.8	10.0	8.7	8.3	8.7	10.0
2	17.6	20.8	20.6	20.0	22.0	19.3	13.7	9.8	8.7	8.3	8.7	10.3
3	17.8	20.9	20.5	20.0	21.9	18.8	13.4	9.8	8.7	8.3	8.7	10.3
4	17.8	21.0	20.2	20.0	21.9	18.4	13.1	9.7	8.7	8.4	8.7	9.9
5	17.8	22.4	20.2	20.0	22.0	18.2	12.9	9.7	8.7	8.4	8.7	9.8
6	17.8	23.5	20.2	20.2	22.2	18.0	12.8	9.6	8.7	8.4	8.7	9.7
7	17.8	23.7	20.4	20.8	22.5	17.6	12.6	9.5	8.7	8.4	8.7	9.7
8	17.5	24.0	20.7	20.2	22.1	17.3	12.5	9.5	8.7	8.4	8.7	10.0
9	16.9	24.2	20.6	20.2	22.0	17.2	12.4	9.5	8.7	8.4	8.7	14.8
10	16.8	24.2	20.6	20.2	22.0	16.8	12.3	9.4	8.7	8.4	8.7	14.2
11	16.7	23.9	20.6	20.4	21.8	16.6	12.2	9.4	8.7	8.5	8.7	14.2
12	16.7	23.8	20.6	20.6	21.6	16.3	12.0	9.4	8.6	8.5	8.7	14.4
13	16.6	23.5	20.2	20.8	21.6	16.0	11.9	9.4	8.6	8.5	8.7	14.9
14	16.5	23.3	19.8	20.9	21.5	15.6	11.7	9.3	8.6	8.5	8.7	14.0
15	16.4	23.0	19.6	21.0	21.3	15.4	11.7	9.2	8.6	8.5	8.7	13.5
16	16.2	22.4	19.5	21.4	21.1	15.2	11.7	9.1	8.5	8.7	8.7	13.3
17	16.0	22.8	19.6	21.5	21.5	15.0	11.6	9.0	8.5	8.7	8.7	12.8
18	15.8	22.5	19.6	21.8	21.6	14.8	11.4	9.0	8.5	8.7	8.7	12.8
19	15.5	22.5	19.6	21.5	21.3	14.5	11.3	9.0	8.5	8.7	8.7	12.8
20	15.2	22.3	19.6	22.2	21.3	14.3	11.0	8.9	8.4	8.7	8.7	12.0
21	15.0	22.0	19.6	22.2	21.2	14.5	10.8	8.9	8.4	8.7	9.7	11.6
22	14.8	21.9	19.2	22.8	21.1	15.0	10.7	8.9	8.4	8.7	11.7	11.4
23	14.8	21.7	18.9	22.2	21.0	15.2	10.7	8.9	8.4	8.7	11.7	11.3
24	14.7	21.4	18.8	22.0	20.9	14.9	10.6	8.9	8.4	9.5	13.3	11.3
25	14.6	21.3	18.6	21.9	20.8	14.6	10.6	8.7	8.4	10.0	13.0	11.2
26	14.6	21.0	18.6	21.8	20.8	14.5	10.5	8.7	8.3	10.0	12.2	11.0
27	14.6	20.9	18.6	21.7	20.6	14.4	10.3	8.6	8.3	9.7	11.6	10.8
28	14.5	20.5	19.3	21.9	20.4	14.3	10.3	8.6	8.3	9.5	11.0	10.8
29	14.5	-----	19.8	22.0	20.0	14.2	10.3	8.7	8.3	9.3	10.5	10.8
30	17.5	-----	19.8	22.0	19.6	13.9	10.2	8.7	8.3	9.0	10.0	10.6
31	20.0	-----	19.7	-----	19.6	-----	10.0	8.7	-----	8.7	-----	10.5

DAILY RIVER STAGES.

393

Sacramento River system—Sacramento River, Sacramento, Cal.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.5	9.3	16.4	12.5	13.6	11.9	8.8	7.6	7.2	7.5	7.6	10.3
2	10.5	9.5	16.4	12.5	13.4	11.9	8.8	7.6	7.2	7.5	7.6	9.9
3	10.5	9.7	16.4	12.5	13.0	13.0	8.7	7.6	7.2	7.6	7.6	9.6
4	10.4	10.0	16.4	12.5	12.8	13.3	8.6	7.6	7.2	7.7	7.6	9.0
5	10.4	10.0	16.3	12.5	12.6	13.0	8.6	7.6	7.2	7.8	7.6	8.7
6	10.4	10.5	16.2	12.5	12.6	12.8	8.6	7.6	7.2	7.9	7.6	8.4
7	10.4	12.5	16.2	12.9	12.4	12.4	8.4	7.5	7.2	7.9	7.6	8.2
8	10.7	15.5	16.2	13.0	12.2	12.2	8.3	7.4	7.2	7.8	7.6	8.2
9	10.7	15.8	16.1	13.0	12.0	12.0	8.3	7.4	7.2	7.8	7.6	8.0
10	10.6	15.3	16.7	13.0	11.8	11.8	8.3	7.4	7.2	7.7	7.6	7.9
11	10.6	14.8	16.0	13.5	11.8	11.6	8.3	7.4	7.2	7.7	7.5	7.8
12	10.5	14.3	15.6	13.2	11.8	11.4	8.1	7.4	7.2	7.7	7.5	7.8
13	10.2	14.0	15.2	13.5	11.7	11.3	8.0	7.4	7.1	7.7	7.5	7.6
14	9.8	13.7	15.2	13.8	11.6	11.2	8.0	7.4	7.1	7.7	7.5	7.8
15	9.6	13.7	15.0	13.9	11.5	11.1	8.0	7.4	7.1	7.7	7.5	8.0
16	9.5	13.6	14.9	14.3	11.4	11.0	8.0	7.4	7.1	7.7	7.5	8.1
17	9.7	13.6	14.8	14.3	11.4	10.8	8.0	7.4	7.1	7.6	7.5	8.2
18	9.7	13.5	14.4	14.3	11.4	10.6	8.0	7.4	7.1	7.5	7.5	8.2
19	9.7	13.4	14.3	14.3	11.4	10.4	8.0	7.4	7.1	7.5	7.5	8.2
20	9.7	13.3	14.2	14.2	11.4	10.2	7.8	7.3	7.1	7.5	7.6	8.4
21	9.6	13.2	14.0	14.2	11.4	10.1	7.7	7.3	7.1	7.5	8.0	8.6
22	9.6	13.2	13.8	13.8	11.4	9.9	7.7	7.3	7.3	7.5	8.2	9.6
23	9.6	13.3	13.5	13.8	12.5	9.7	7.6	7.3	7.3	7.5	8.1	9.6
24	9.6	13.3	13.3	13.8	12.3	9.4	7.6	7.3	7.3	7.5	8.0	9.1
25	9.6	14.6	13.1	14.0	12.2	9.4	7.6	7.3	7.3	7.7	7.8	8.6
26	9.6	15.8	13.1	14.2	11.8	9.3	7.6	7.2	7.4	7.8	7.8	8.4
27	9.6	15.8	13.0	14.3	11.7	9.3	7.6	7.2	7.4	7.8	7.8	8.4
28	9.6	15.7	12.9	14.1	11.5	9.3	7.6	7.2	7.5	7.7	7.8	8.4
29	9.5	-----	12.8	13.8	11.8	9.1	7.6	7.2	7.5	7.6	7.8	8.4
30	9.3	-----	12.7	13.8	12.4	9.0	7.6	7.2	7.5	7.6	7.8	8.4
31	9.2	-----	12.5	-----	12.1	-----	7.6	7.2	-----	7.6	-----	8.2

1899.

1	8.2	14.1	11.6	24.2	20.0	15.8	11.8	8.5	7.8	7.6	11.3	18.6
2	8.4	14.0	11.8	24.2	19.6	16.8	11.5	8.5	7.8	7.5	11.0	18.8
3	8.9	13.8	12.7	24.1	18.7	16.6	11.3	8.5	7.8	7.5	10.9	18.8
4	9.9	13.8	12.8	23.9	18.4	16.6	11.1	8.5	7.8	7.4	10.7	18.8
5	9.9	13.5	12.8	23.8	17.8	16.8	11.0	8.4	7.8	7.4	10.5	19.0
6	9.7	13.0	12.9	23.8	17.6	17.2	10.9	8.4	7.7	7.4	10.5	18.8
7	9.7	12.5	12.8	23.8	17.6	16.8	10.7	8.4	7.7	7.4	10.5	18.6
8	9.6	12.3	12.6	23.6	17.6	16.8	10.6	8.4	7.7	7.4	10.4	18.6
9	9.6	12.0	12.6	23.5	17.6	16.8	10.5	8.4	7.7	7.4	10.4	18.9
10	10.0	12.0	12.6	23.4	18.2	16.6	10.4	8.4	7.7	7.4	13.4	18.6
11	12.0	11.9	12.5	23.4	18.2	16.4	10.2	8.3	7.7	7.4	18.0	18.0
12	15.0	11.8	12.4	23.2	18.3	16.4	9.9	8.3	7.7	7.4	19.4	18.9
13	14.3	11.7	12.3	23.2	18.5	16.6	9.9	8.3	7.7	7.6	18.3	20.5
14	12.8	11.7	12.0	23.0	18.5	16.0	9.7	8.2	7.7	7.9	17.3	20.0
15	13.3	11.6	12.2	22.8	18.5	15.4	9.7	8.2	7.7	8.4	17.6	20.0
16	14.8	11.6	15.5	22.8	18.5	15.0	9.7	8.1	7.7	8.2	18.0	21.5
17	16.5	11.6	16.8	22.8	18.0	14.7	9.7	8.0	7.7	8.2	17.8	22.0
18	16.2	11.6	16.9	22.6	17.8	14.5	9.5	8.0	7.7	8.1	17.2	21.8
19	16.0	11.6	16.0	22.6	17.3	14.3	9.3	8.0	7.7	8.1	17.0	21.8
20	16.0	11.9	15.6	22.3	16.8	14.2	9.1	8.0	7.7	8.2	17.6	22.0
21	16.4	12.4	15.9	22.0	16.2	13.9	9.0	8.0	7.7	11.5	18.0	22.2
22	16.6	12.6	16.9	22.3	16.2	13.4	8.9	8.0	7.7	17.5	18.6	22.2
23	16.3	12.3	20.0	22.0	16.3	13.1	8.8	8.0	7.7	17.3	18.6	22.2
24	15.9	12.4	22.1	21.6	16.4	12.8	8.8	8.0	7.7	16.5	18.6	22.1
25	15.7	12.3	23.4	21.6	16.4	12.6	8.8	7.9	7.7	15.3	18.3	22.0
26	15.4	12.0	22.6	21.3	15.8	12.5	8.7	7.9	7.7	13.8	18.0	21.9
27	14.9	11.8	22.7	20.9	15.5	12.4	8.7	7.8	7.7	12.8	17.9	21.8
28	14.5	11.6	23.2	21.0	15.3	12.3	8.7	7.8	7.7	12.3	17.8	21.7
29	14.5	-----	23.8	20.6	15.3	12.2	8.7	7.8	7.6	12.0	17.6	21.6
30	14.5	-----	23.9	20.2	15.3	12.0	8.7	7.8	7.6	11.6	17.6	21.3
31	14.4	-----	24.1	-----	15.2	-----	8.6	7.8	-----	11.3	-----	21.8

DAILY RIVER STAGES.

Santee River system—Santee River, St. Stephens, S. C.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.1	7.7	6.4	3.7	1.3	1.0	1.2	6.4	0.9	-0.9	-0.7	1.5
2	4.8	7.9	6.3	3.7	1.0	0.7	0.9	6.0	0.6	1.3	-0.7	1.5
3	6.0	8.0	6.7	3.8	1.0	0.4	0.5	4.9	-0.1	5.2	-0.5	5.8
4	6.4	8.1	6.8	4.1	1.1	0.4	0.5	4.3	-0.7	6.0	0.5	6.7
5	6.7	8.0	6.9	5.1	2.0	2.5	0.2	4.6	-1.0	6.4	0.7	7.1
6	6.9	8.1	6.8	5.7	3.6	4.5	-0.1	4.6	-0.8	6.4	0.5	7.3
7	6.9	7.9	6.7	6.1	5.5	5.7	0.5	4.3	-0.6	5.7	2.7	7.4
8	6.7	7.8	6.4	6.2	6.1	6.2	2.2	3.8	2.6	4.3	5.5	7.5
9	6.2	8.0	5.9	6.2	6.4	6.2	5.0	3.0	3.8	2.5	6.3	7.7
10	5.3	8.1	5.5	6.0	6.5	6.1	6.2	1.1	4.0	1.1	6.6	7.8
11	4.6	8.3	6.1	5.6	6.1	5.1	6.6	1.6	3.5	0.7	6.8	8.0
12	4.1	8.7	5.9	5.1	5.4	3.8	6.9	1.2	2.2	0.3	7.1	8.1
13	3.7	10.4	5.5	4.6	4.2	4.0	7.1	0.8	1.1	-0.1	7.3	8.2
14	3.3	11.9	6.1	4.1	3.3	4.4	7.5	0.8	0.3	-0.3	7.4	8.3
15	2.8	12.4	5.8	3.7	2.4	3.5	8.5	2.1	-0.3	-0.6	7.5	8.4
16	2.3	12.5	6.1	3.4	1.6	2.2	11.4	2.3	-0.6	-1.0	7.6	8.4
17	2.0	12.0	6.1	3.0	1.2	1.5	13.2	2.8	-0.6	-1.3	7.7	8.4
18	2.1	11.2	5.8	2.7	1.0	1.0	13.6	2.9	-1.0	-1.0	7.7	8.3
19	3.6	10.4	5.5	2.6	0.7	0.1	13.4	3.2	-0.9	-1.0	7.5	8.2
20	5.6	9.6	5.3	2.4	0.5	-0.2	12.7	3.0	-0.9	-1.0	7.0	8.0
21	6.3	9.0	5.0	2.1	0.2	0.0	11.8	2.0	-1.0	-1.0	6.1	7.9
22	6.6	8.7	4.9	1.9	0.1	0.6	10.8	1.7	-1.0	-1.3	4.9	7.8
23	6.9	8.5	5.0	1.6	0.0	2.3	9.9	1.6	-1.0	-1.4	4.0	7.8
24	7.0	8.3	4.9	1.4	0.1	4.0	9.2	1.0	-1.0	-1.4	3.2	7.7
25	7.1	8.1	4.8	1.8	0.3	4.1	8.7	0.6	-0.1	-1.4	2.5	7.5
26	7.1	7.8	4.6	2.0	0.3	3.3	8.5	0.6	3.2	-1.2	1.9	7.1
27	7.1	7.5	4.5	1.8	0.7	2.5	8.3	0.0	2.8	-0.5	1.5	6.5
28	7.2	7.1	4.1	1.7	1.2	2.4	8.1	0.8	1.0	0.6	1.5	5.7
29	7.3	6.7	4.1	1.8	1.6	2.0	7.9	1.1	-0.1	0.5	1.5	5.0
30	7.3	-----	4.1	1.6	1.8	1.5	7.5	1.4	-0.6	-0.1	1.5	4.1
31	7.5	-----	4.0	-----	1.4	-----	6.8	1.5	-----	-0.7	-----	3.5

1897.

1	3.2	7.9	8.6	8.6	6.8	3.1	4.5	7.3	3.5	1.3	1.0	5.0
2	3.3	7.9	8.6	8.4	6.7	2.9	4.9	7.2	2.4	0.6	0.9	5.9
3	3.2	7.7	8.6	8.3	6.6	3.1	4.8	6.7	1.7	0.2	0.9	6.1
4	3.1	7.4	8.7	8.2	6.6	3.2	4.3	5.8	2.1	0.0	0.9	5.6
5	3.0	7.3	8.9	8.1	6.8	3.2	3.6	4.6	3.0	-0.3	1.5	4.7
6	2.9	7.5	9.0	8.0	7.0	4.3	2.9	3.2	2.7	-0.6	2.7	3.6
7	2.7	7.7	9.0	8.0	7.1	5.1	2.6	3.2	1.9	-0.9	3.3	3.2
8	2.6	7.8	8.8	8.0	7.2	5.6	3.9	3.5	1.2	-1.2	3.2	3.1
9	2.7	7.9	8.7	8.0	7.2	6.3	4.6	4.0	0.6	-1.3	2.6	3.1
10	2.7	7.9	8.5	8.0	7.3	6.6	4.7	5.6	0.0	-1.3	1.9	3.0
11	2.6	8.0	8.4	8.2	7.2	6.8	4.2	6.2	-0.3	-1.2	1.4	2.9
12	2.4	8.4	8.3	8.7	7.2	7.0	4.1	6.3	-0.3	-1.2	0.9	2.5
13	2.1	10.0	8.3	10.7	7.0	7.1	4.5	5.5	-0.3	-0.3	0.9	2.2
14	2.0	12.9	8.4	11.5	6.8	7.3	4.7	4.9	-0.9	1.0	0.9	2.0
15	2.2	13.7	8.5	11.4	6.6	7.4	5.0	5.0	-1.0	3.5	0.7	1.8
16	3.0	13.6	8.9	11.0	6.7	7.7	5.6	4.7	-1.0	5.4	0.5	1.6
17	3.8	13.0	9.2	10.3	6.8	8.0	6.0	4.0	-1.0	6.1	0.4	1.4
18	4.6	12.3	9.3	9.6	6.9	8.2	5.9	3.9	-1.4	6.5	0.3	1.8
19	4.7	11.7	9.5	9.1	7.0	8.3	5.1	3.9	-1.4	6.0	0.0	2.1
20	5.0	11.0	9.9	8.8	6.9	8.3	4.6	3.6	-1.4	4.9	0.0	2.2
21	5.7	10.5	10.6	8.5	6.6	8.1	5.5	4.6	-1.4	3.4	0.0	2.3
22	6.1	10.0	11.2	8.3	6.3	7.9	6.2	6.0	-1.4	1.6	0.1	2.4
23	6.4	9.6	11.6	8.2	5.7	7.4	6.5	6.5	-0.6	3.3	0.1	2.1
24	6.8	9.2	11.2	8.1	5.2	6.8	6.7	6.7	0.6	3.7	0.1	2.1
25	7.0	9.0	10.7	8.0	4.6	6.3	6.9	6.8	3.1	3.6	0.1	2.8
26	7.1	8.9	10.3	7.8	4.3	5.6	7.0	7.0	4.9	3.6	-0.3	3.9
27	7.2	8.8	9.8	7.6	4.7	5.0	7.2	7.0	5.1	3.0	-0.3	4.0
28	7.4	8.7	9.5	7.3	4.8	4.6	7.3	7.0	4.5	2.2	-0.1	4.2
29	7.6	-----	9.2	7.0	4.4	4.1	7.3	6.7	3.3	1.6	0.2	4.7
30	7.7	-----	8.9	6.8	3.8	-----	7.3	5.9	2.3	1.3	2.2	4.5
31	7.8	-----	8.8	-----	3.5	-----	7.3	4.7	-----	1.1	-----	3.4

DAILY RIVER STAGES.

395

Santee River system—Santee River, St. Stephens, S. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.0	7.3	1.5	1.7	7.1	1.0	-0.2	7.1	8.5	7.4	7.9	7.8
2	4.7	7.4	1.5	4.5	7.4	0.4	-0.3	7.1	8.6	7.5	7.9	7.6
3	4.1	7.4	1.2	6.1	7.4	0.4	-0.2	7.1	8.7	7.8	8.0	7.3
4	3.5	7.4	1.2	6.6	7.3	0.4	-0.3	7.0	8.7	8.0	7.9	7.3
5	2.9	7.3	1.8	7.0	7.1	0.4	-0.7	7.0	8.7	8.3	7.9	7.5
6	2.3	6.5	3.0	7.2	6.5	-0.3	-1.0	6.9	8.7	8.5	7.6	7.5
7	1.8	5.6	5.6	7.4	5.5	-0.8	-1.2	6.5	8.7	8.6	7.3	7.6
8	1.8	4.6	6.5	7.5	4.5	-0.9	-1.3	6.3	8.5	8.5	6.7	7.5
9	1.8	3.9	6.9	7.6	3.7	-1.0	2.6	6.2	8.5	8.3	6.1	7.7
10	1.8	3.1	7.1	7.7	3.1	-1.1	5.5	6.7	8.4	8.3	5.8	7.7
11	1.8	2.6	7.0	7.8	2.6	-1.4	6.3	7.0	8.4	8.2	5.6	7.7
12	1.8	2.6	6.6	7.9	2.4	-1.4	6.7	7.1	8.4	8.1	5.1	7.8
13	1.5	2.4	5.9	8.0	1.8	-1.4	7.0	7.1	8.3	8.1	4.5	7.9
14	1.3	2.3	4.9	8.1	1.7	-1.4	7.1	7.0	8.3	8.1	4.5	7.9
15	1.5	2.1	4.0	8.2	1.6	-2.0	7.1	6.8	8.3	8.1	4.7	7.8
16	1.9	1.9	3.5	8.2	1.3	-2.0	7.1	6.8	8.5	8.2	5.7	7.7
17	1.8	1.7	4.4	8.1	1.4	-1.6	7.1	6.9	8.5	8.3	6.5	7.3
18	1.7	1.3	5.3	8.0	1.6	-0.9	7.1	7.1	8.5	8.4	7.0	7.1
19	1.7	1.3	5.6	7.7	1.2	0.1	7.1	7.2	8.4	8.4	7.3	6.6
20	1.6	1.3	5.6	7.2	1.0	3.5	7.1	7.0	8.1	8.1	7.5	6.1
21	1.1	1.6	5.0	6.5	0.9	5.5	6.8	7.4	7.7	7.9	7.7	5.9
22	1.1	2.1	4.6	5.6	0.6	5.9	6.7	7.6	7.0	7.5	7.8	5.8
23	1.6	2.6	4.8	4.6	0.3	6.5	6.1	7.7	6.0	7.2	7.9	6.0
24	2.2	2.6	4.5	4.0	0.1	6.6	4.8	7.7	5.0	7.2	8.0	6.5
25	3.3	2.5	3.7	3.6	0.0	6.5	3.6	7.8	4.2	7.2	8.0	6.9
26	3.9	2.2	3.3	4.0	-0.1	6.0	3.3	7.9	6.0	7.4	8.0	7.1
27	4.0	2.0	2.7	5.5	-0.3	4.5	4.6	8.0	6.6	7.4	8.1	7.1
28	5.6	1.7	2.3	6.4	-0.1	2.6	6.1	8.2	6.8	7.5	8.1	7.3
29	6.5	-----	2.2	6.8	2.0	1.0	6.5	8.3	7.1	7.5	8.0	7.5
30	6.9	-----	2.2	7.0	2.3	0.1	6.8	8.3	7.3	7.6	7.9	7.6
31	7.1	-----	2.0	-----	1.9	-----	7.0	8.4	-----	7.7	-----	7.6

1899.

1	7.5	8.2	10.4	9.9	7.9	4.2	3.0	5.9	5.9	0.1	1.4	6.8
2	7.5	8.1	9.8	9.4	7.8	4.0	3.3	5.2	6.3	0.1	4.1	6.9
3	7.3	8.0	9.3	9.1	7.8	3.9	3.1	4.3	6.5	0.0	6.2	6.5
4	7.0	8.0	9.1	9.0	7.8	4.1	2.6	3.9	6.1	-0.3	6.8	5.9
5	6.9	8.0	9.3	8.9	7.8	4.2	2.1	3.3	5.9	-0.3	7.0	5.4
6	6.8	8.0	11.0	9.0	7.8	4.2	1.6	2.5	5.8	-0.6	7.0	4.9
7	6.6	8.0	12.1	9.2	7.8	4.0	1.2	1.8	5.5	-0.9	6.8	4.1
8	6.5	8.0	12.2	9.4	7.6	3.7	1.4	1.2	4.5	3.1	6.1	3.2
9	6.4	8.1	11.9	9.5	7.5	3.2	1.6	0.8	3.3	5.7	5.0	2.8
10	6.8	8.2	11.2	9.3	7.4	3.0	1.7	0.5	2.6	6.3	3.7	2.4
11	7.2	8.2	10.5	8.8	7.3	2.8	1.8	0.3	2.9	6.8	2.7	2.1
12	7.4	8.6	10.1	8.8	7.2	2.7	2.2	0.3	3.7	6.9	2.2	2.0
13	7.5	11.3	9.7	8.8	7.1	2.6	2.2	1.4	4.7	7.0	1.9	1.8
14	7.7	14.7	9.4	8.8	7.0	3.3	1.8	2.1	6.0	6.9	1.6	2.2
15	7.8	15.3	9.2	8.8	7.0	4.2	1.4	3.4	6.5	6.4	1.3	5.2
16	8.1	15.2	9.0	9.1	6.9	4.6	1.0	3.6	6.7	5.3	1.1	6.4
17	8.4	14.5	8.8	9.1	6.9	5.0	0.7	3.0	6.8	4.0	0.8	6.9
18	8.7	13.3	8.6	9.0	6.9	5.5	0.4	1.9	6.0	2.9	0.7	7.0
19	9.0	12.2	8.3	9.0	6.9	5.4	0.3	1.0	4.7	2.0	0.9	7.3
20	9.2	11.0	8.4	8.8	6.8	4.9	0.2	0.4	3.3	1.3	1.0	7.3
21	9.3	10.1	8.4	8.7	6.6	4.5	0.0	0.2	2.2	0.9	0.9	7.1
22	9.3	9.7	8.5	8.5	6.4	4.2	-0.1	0.0	1.5	0.9	0.9	6.6
23	9.3	10.1	8.7	8.4	6.0	3.6	0.1	-0.3	1.3	0.8	0.7	5.9
24	9.2	11.0	10.1	8.4	5.7	3.2	1.0	-0.4	1.5	0.8	0.5	5.1
25	9.2	11.9	11.0	8.2	5.4	2.7	0.9	-0.4	1.7	0.8	0.3	4.4
26	9.1	11.8	11.5	8.2	5.3	2.4	0.6	-0.2	1.7	0.5	2.2	5.0
27	8.9	11.5	12.0	8.1	5.2	2.1	0.5	-0.3	1.2	0.0	4.0	6.3
28	8.7	10.9	12.2	8.0	5.1	2.0	0.4	0.3	0.5	-0.1	4.6	6.8
29	8.4	-----	12.0	7.9	5.0	1.7	2.3	0.6	0.1	0.0	5.9	7.1
30	8.4	-----	11.3	7.9	4.7	2.0	5.0	2.2	0.0	0.1	6.5	7.2
31	8.3	-----	10.6	-----	4.3	-----	5.8	5.0	-----	0.7	-----	7.3

DAILY RIVER STAGES.

Santee River system—Wateres River, Camden, S. C.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.0	5.0	9.0	4.4	3.0	3.4	4.4	4.3	2.2	14.9	1.7	10.8
2	10.1	4.8	7.4	6.0	4.1	3.5	3.3	3.8	2.0	11.4	2.0	17.7
3	7.5	7.0	6.1	9.5	4.3	3.7	2.8	3.6	1.8	6.0	2.1	14.7
4	6.0	17.5	5.0	15.0	7.6	6.1	4.0	5.0	1.7	4.1	2.1	11.0
5	4.0	16.8	4.9	7.9	12.0	10.5	5.8	4.3	1.6	3.0	4.2	7.1
6	3.9	22.2	4.7	7.0	9.4	9.0	4.1	4.0	2.3	2.8	12.5	5.5
7	3.5	27.5	4.4	6.5	6.5	6.1	14.8	3.1	3.0	2.5	16.9	4.8
8	4.1	25.0	4.1	6.0	5.0	4.5	27.0	2.8	5.6	2.4	17.2	9.0
9	3.7	24.4	4.2	5.4	4.3	4.0	28.7	2.6	4.0	2.3	10.5	11.1
10	3.5	24.5	4.1	4.8	4.1	3.4	28.5	2.4	3.6	2.1	5.0	12.0
11	3.3	20.5	4.5	4.2	4.0	7.0	28.8	2.2	3.1	2.1	4.5	7.5
12	3.4	14.6	7.4	4.6	3.6	4.4	26.6	4.0	2.4	2.0	3.0	5.4
13	3.6	10.9	6.5	4.4	3.4	3.0	23.5	2.5	2.0	1.8	4.4	5.0
14	3.4	9.5	6.1	4.2	3.1	2.8	19.4	2.4	1.7	1.7	6.0	4.6
15	3.3	9.3	5.8	4.0	2.8	2.7	14.7	3.0	1.5	1.6	4.3	5.3
16	3.5	8.4	5.1	3.8	2.6	2.4	10.4	4.8	2.4	1.5	4.0	6.0
17	3.8	8.0	4.9	3.7	2.4	2.2	8.6	5.0	2.0	1.5	3.7	10.5
18	10.0	7.1	4.7	3.5	2.5	2.1	10.0	3.1	1.8	1.4	3.2	12.6
19	8.0	6.8	6.0	3.4	2.4	2.0	9.2	2.9	1.6	1.4	3.0	8.0
20	5.1	6.5	5.6	3.3	2.2	2.5	7.5	3.3	1.5	1.3	2.8	6.4
21	4.1	6.0	5.0	3.2	2.0	6.0	9.4	3.0	1.8	1.3	2.6	4.1
22	3.8	5.5	4.6	3.3	2.1	6.4	9.0	2.8	1.9	1.3	2.4	4.6
23	4.9	4.9	4.4	3.2	2.4	4.0	6.8	2.7	9.1	1.4	2.3	4.2
24	11.5	4.7	4.3	3.1	2.2	3.8	6.8	2.6	6.0	1.6	2.4	4.0
25	16.0	4.8	4.1	3.4	2.0	3.6	6.0	3.5	3.1	2.0	2.3	4.5
26	10.4	4.6	4.4	3.8	5.1	4.8	5.4	2.8	2.5	2.5	2.2	4.0
27	8.0	4.5	4.3	3.7	4.8	4.2	5.1	2.6	3.0	2.3	2.2	3.8
28	7.5	4.5	4.1	3.2	3.7	3.8	4.3	3.0	2.9	2.0	2.3	3.7
29	5.8	8.5	4.0	3.2	3.0	4.0	4.0	2.8	2.8	1.8	3.5	3.6
30	5.6		3.8	3.1	2.8	4.3	4.8	2.7	8.0	1.7	4.0	3.9
31	5.3		4.0	3.0	2.7		5.0	2.5		1.6		4.0

1897.

1	4.3	5.2	9.4	10.0	8.0	5.0	4.2	3.6	5.0	2.3	3.5	4.9
2	5.0	6.3	8.5	10.1	10.4	5.4	4.0	3.6	3.6	2.3	4.0	5.1
3	4.5	12.7	8.0	8.5	9.0	5.7	4.0	3.5	3.4	2.2	3.8	5.2
4	4.0	12.0	7.7	10.4	11.1	4.5	4.0	3.4	3.1	2.1	3.4	5.4
5	3.8	9.5	7.3	16.5	10.0	5.3	4.3	3.3	2.7	2.1	4.5	4.1
6	3.5	16.1	7.0	27.0	8.4	7.7	6.0	3.5	2.6	2.0	4.0	4.0
7	3.2	28.3	12.0	28.6	7.5	6.8	4.5	3.8	2.6	1.8	3.6	3.7
8	3.1	29.7	25.1	22.0	7.0	10.0	4.0	6.5	2.5	1.7	3.0	3.6
9	3.8	26.5	22.5	16.0	6.6	20.0	6.1	7.1	2.4	1.7	2.8	3.5
10	3.7	19.4	16.8	14.9	6.4	15.1	6.0	6.0	2.4	1.6	2.9	3.3
11	3.5	14.1	18.0	12.8	6.3	10.1	5.9	4.7	2.3	2.1	3.0	3.2
12	3.4	17.0	20.0	11.7	6.3	8.0	6.2	12.5	2.2	2.2	3.3	3.1
13	3.4	19.5	22.1	10.0	6.3	7.1	10.6	7.7	2.1	2.4	3.4	3.0
14	3.6	16.0	19.5	9.3	10.9	7.4	9.3	5.0	2.0	12.4	3.0	3.1
15	4.0	12.8	25.8	8.5	11.8	5.8	7.2	4.4	1.9	9.5	2.7	3.4
16	4.2	11.4	24.7	8.2	8.8	5.2	6.8	4.5	1.9	5.6	2.5	3.2
17	3.3	15.1	20.8	8.0	6.9	5.0	4.7	5.4	1.8	5.0	2.5	3.1
18	4.6	12.0	18.0	8.5	6.2	4.7	7.5	4.4	1.7	4.5	2.6	3.1
19	5.6	9.2	16.3	7.8	5.9	5.0	7.0	4.6	1.7	4.0	2.4	3.4
20	5.5	8.8	15.8	7.3	6.0	5.3	10.5	3.9	1.8	5.1	2.3	3.6
21	9.0	10.2	16.5	7.0	5.5	4.9	8.4	4.0	2.2	5.4	2.4	3.7
22	18.0	14.0	15.0	6.8	5.3	6.8	22.5	4.1	2.5	4.0	2.3	3.9
23	15.5	12.1	13.5	6.6	5.1	5.5	20.0	6.5	3.5	5.1	2.3	4.8
24	10.7	13.5	12.5	6.5	7.5	5.0	12.1	4.4	3.6	5.0	2.2	4.4
25	7.0	21.5	10.3	6.4	7.1	4.8	6.5	4.0	3.4	4.4	2.2	4.8
26	6.2	22.1	9.5	6.4	6.0	4.6	4.9	3.7	3.2	3.8	2.3	4.9
27	6.0	15.5	8.6	6.5	5.5	5.0	6.5	3.3	3.0	3.3	2.8	5.6
28	6.3	12.4	8.0	6.3	4.9	4.7	11.0	3.1	2.7	3.1	4.8	6.0
29	6.1		7.5	6.6	4.8	4.5	7.1	3.2	2.6	2.8	7.7	5.7
30	6.2		7.2	6.7	4.9	4.2	4.8	3.0	2.4	2.2	5.0	5.0
31	6.0		8.0		5.4		4.2	3.1		2.1		4.7

DAILY RIVER STAGES.

397

Santee River system—Waterlee River, Camden, S. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.7	5.6	3.1	22.0	4.8	2.8	2.0	8.7	13.0	5.8	6.5	6.5
2	4.3	5.3	3.3	16.5	4.0	2.5	1.5	5.8	11.2	5.7	6.2	6.0
3	4.0	5.1	3.4	10.6	3.6	2.2	1.3	4.1	9.0	5.5	5.8	6.4
4	3.8	5.0	4.0	7.5	3.4	2.3	1.1	4.0	7.3	7.4	5.5	7.1
5	3.4	4.7	13.5	7.4	3.2	2.2	0.9	6.7	6.4	11.4	5.3	9.5
6	3.2	4.5	12.7	14.5	3.0	2.1	7.5	4.8	12.3	24.7	5.0	13.0
7	3.0	4.3	7.5	14.4	3.3	2.0	7.7	13.6	13.8	25.2	4.8	13.1
8	2.8	4.0	5.0	10.1	3.4	2.0	15.5	8.5	14.3	20.5	6.5	10.0
9	3.0	3.9	4.6	7.5	3.5	1.8	9.7	7.0	18.2	15.0	5.6	7.9
10	3.0	3.8	4.3	6.0	3.3	1.7	6.5	6.4	13.0	11.3	5.2	7.0
11	3.1	3.6	4.0	6.1	3.1	1.6	8.3	5.7	8.3	8.6	5.0	6.1
12	3.3	3.4	3.5	5.5	3.0	1.5	6.5	6.5	6.4	7.5	4.7	5.5
13	2.9	3.3	3.0	6.2	2.8	1.4	5.5	9.0	5.1	6.7	4.3	5.4
14	2.7	3.1	2.9	6.0	3.6	1.4	5.0	9.7	4.7	6.2	8.0	5.3
15	2.8	3.3	4.5	5.6	3.1	1.5	4.8	10.9	4.2	6.0	7.7	5.0
16	3.0	3.4	5.1	5.5	3.0	1.7	5.0	9.0	4.0	5.8	6.8	4.4
17	2.9	3.3	5.4	4.8	2.8	5.5	12.0	8.2	3.7	5.5	13.0	5.0
18	2.8	3.3	5.8	4.2	2.6	10.5	8.8	11.5	3.6	5.7	11.0	4.8
19	2.9	3.5	5.0	4.0	2.5	7.7	5.0	8.3	3.5	5.3	12.0	4.7
20	3.0	3.7	8.1	4.2	2.3	10.0	4.7	14.0	3.3	7.2	11.3	5.0
21	3.2	4.0	6.4	4.5	2.4	8.9	4.0	25.1	3.2	12.8	9.4	6.4
22	3.0	3.9	5.5	4.0	2.4	6.4	3.5	24.8	3.2	9.5	8.5	7.5
23	5.5	3.7	4.6	3.5	2.5	5.0	2.9	21.8	3.1	20.0	7.3	7.4
24	6.3	3.4	4.1	4.6	2.2	4.9	5.0	12.6	10.6	20.8	6.5	10.8
25	6.5	3.3	3.5	6.7	2.1	4.0	7.1	7.0	26.9	14.5	6.4	12.0
26	13.0	3.1	3.6	7.0	6.5	2.4	8.0	6.2	26.4	10.4	7.0	9.8
27	13.5	3.0	4.0	8.0	5.4	1.8	8.6	12.0	16.0	8.4	6.6	7.9
28	12.5	3.0	3.8	11.0	5.0	2.0	10.0	9.8	10.4	8.0	5.9	7.0
29	9.0	-----	3.7	7.5	4.6	2.7	11.0	6.6	7.7	7.2	5.0	6.5
30	7.1	-----	3.6	6.4	3.3	3.0	8.0	12.0	6.6	6.8	5.2	6.2
31	6.2	-----	17.0	-----	3.1	-----	10.1	16.8	-----	6.2	-----	6.0

1899.

1	5.6	11.8	26.8	20.5	7.4	6.0	5.2	5.5	5.2	3.1	14.0	4.6
2	5.5	10.7	21.4	16.0	7.0	5.9	5.1	5.5	5.1	2.9	8.9	4.4
3	8.0	8.5	16.5	14.1	6.1	5.9	4.8	4.5	9.5	2.8	6.7	5.2
4	7.3	8.0	18.6	13.5	5.5	6.2	4.5	4.2	6.4	2.7	4.6	4.7
5	6.0	8.5	17.0	14.4	5.0	6.3	4.6	4.1	5.5	2.7	4.8	4.1
6	5.8	25.5	19.5	16.2	4.4	5.7	4.7	3.9	4.8	7.5	4.7	3.9
7	6.7	28.8	18.4	14.0	6.1	5.4	4.4	3.7	4.5	9.5	4.0	3.7
8	23.8	31.0	16.0	20.5	6.0	5.3	4.7	3.5	4.8	12.2	3.7	3.5
9	22.9	29.0	13.5	23.0	10.1	5.1	5.6	3.3	7.0	15.0	3.6	3.4
10	17.0	23.1	11.8	21.3	10.5	5.0	5.5	3.8	6.4	9.0	3.5	3.4
11	11.5	17.5	11.1	16.4	10.0	5.2	4.9	4.7	7.3	5.2	3.4	3.3
12	12.0	14.0	10.5	14.0	7.1	8.8	4.6	5.0	18.8	4.8	3.4	4.0
13	13.1	13.5	8.0	13.1	6.6	8.0	4.2	5.8	11.2	4.0	3.2	13.6
14	15.0	10.1	7.4	10.0	7.0	6.5	4.0	5.0	5.5	3.7	3.1	17.4
15	20.4	9.0	8.1	8.8	12.1	7.9	3.8	4.3	4.2	3.6	3.2	11.9
16	18.2	10.1	24.9	8.1	10.2	7.0	3.8	3.8	4.0	3.5	3.3	7.3
17	15.5	26.6	28.3	8.0	8.0	6.0	3.5	3.8	3.6	3.3	3.3	5.7
18	13.4	26.8	26.6	7.6	7.7	6.2	3.8	3.6	3.5	3.2	3.1	5.1
19	11.5	24.5	20.6	7.5	7.1	6.4	3.6	3.5	3.5	3.1	3.0	5.0
20	9.2	20.0	24.5	7.1	6.9	5.3	3.8	3.1	3.7	3.1	3.0	4.8
21	8.2	16.2	28.5	6.8	6.7	5.0	3.9	3.0	4.0	3.3	2.9	4.9
22	7.6	16.0	28.2	6.6	6.5	5.0	4.8	2.9	4.4	3.4	3.0	4.4
23	7.4	14.1	19.4	6.7	6.4	4.9	4.6	3.5	4.8	3.2	3.1	4.3
24	7.5	13.2	17.0	6.5	6.3	4.8	3.8	3.0	3.9	2.9	7.0	6.6
25	7.8	11.0	15.1	6.3	6.6	4.6	3.4	3.4	3.4	2.7	5.9	13.1
26	8.2	10.1	14.2	6.8	6.4	4.4	4.5	3.3	3.0	2.8	5.0	9.3
27	7.8	24.9	13.8	11.0	6.1	4.3	6.6	2.9	3.2	2.9	11.5	7.0
28	7.2	28.0	18.0	11.5	6.0	5.0	8.0	3.9	3.2	3.0	11.8	5.8
29	7.0	-----	20.4	10.1	5.9	5.5	7.9	6.0	3.3	3.2	7.7	6.6
30	8.5	-----	21.0	9.0	5.8	5.9	6.0	6.6	3.2	3.3	5.4	5.6
31	9.0	-----	18.5	-----	5.8	-----	5.3	7.1	-----	7.0	-----	5.5

DAILY RIVER STAGES.

*Santee River system—Congaree River, Columbia, S. C.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.0	1.7	2.3	0.8	1.5	0.8	0.6	1.5	0.7	6.2	1.7	4.1
2	2.6	1.0	2.0	1.5	1.0	1.3	0.5	2.0	0.6	3.1	2.1	4.6
3	2.0	4.0	2.0	1.7	1.5	1.8	0.4	1.6	0.9	1.7	1.9	4.5
4	1.8	6.3	1.7	1.9	1.3	3.4	0.4	2.4	0.9	1.3	1.9	4.5
5	1.2	3.5	1.5	1.9	3.6	2.7	0.2	2.0	1.5	1.3	4.3	3.7
6	1.0	13.8	1.0	1.7	2.5	2.4	0.3	1.6	3.9	1.0	8.9	3.4
7	1.0	15.7	1.2	1.5	1.7	2.1	2.7	1.8	2.3	0.9	11.2	3.5
8	1.2	11.5	1.2	1.5	1.5	1.5	16.0	1.4	1.5	1.3	7.3	3.0
9	1.2	14.5	1.0	1.3	1.4	1.2	15.3	1.0	1.2	1.3	2.5	3.6
10	1.0	13.0	0.8	1.7	1.2	0.9	15.8	0.8	0.9	0.9	1.0	3.5
11	0.8	9.0	1.0	1.4	0.9	0.7	13.5	1.0	0.9	0.9	1.0	3.6
12	0.8	4.5	1.0	1.4	0.7	0.6	13.5	1.5	0.8	1.2	1.5	2.4
13	0.6	3.0	0.9	1.2	0.5	0.3	8.3	1.0	0.9	0.9	2.7	2.0
14	0.5	3.0	1.2	1.0	0.3	0.2	5.0	2.0	1.5	0.8	3.4	2.0
15	0.5	2.8	1.0	1.0	0.2	0.3	2.5	1.7	1.3	1.2	2.9	2.8
16	0.7	2.6	1.0	0.8	0.4	0.2	2.3	1.4	0.9	1.5	3.0	3.0
17	2.6	2.0	1.2	0.8	0.3	0.3	2.6	1.5	0.9	1.3	2.1	3.5
18	2.8	2.0	1.0	0.5	0.2	0.3	2.5	1.3	0.8	1.2	1.9	2.0
19	4.0	1.8	1.3	0.5	0.3	0.2	2.2	1.6	0.9	0.9	1.0	1.9
20	3.5	1.7	1.3	0.3	0.2	0.8	2.0	1.6	1.0	0.9	0.9	1.6
21	1.5	1.5	1.0	0.2	0.6	1.6	2.8	1.0	1.0	0.8	1.0	1.5
22	1.5	1.3	0.9	0.2	0.4	1.8	2.3	0.8	1.3	0.8	1.2	1.3
23	2.6	1.3	0.9	0.5	0.7	2.1	2.2	0.7	2.3	1.2	1.1	1.2
24	7.5	1.0	1.3	0.5	0.7	1.8	1.8	0.9	1.7	1.3	1.4	1.2
25	8.0	1.2	1.2	0.3	1.3	1.6	1.6	1.7	1.3	1.7	1.4	1.1
26	4.0	1.2	1.0	0.3	1.0	1.5	1.5	1.7	1.1	1.7	1.5	0.8
27	2.5	1.0	1.0	0.3	1.6	1.4	1.6	1.9	0.9	1.3	1.5	0.9
28	2.0	1.2	0.8	0.5	1.6	1.2	2.8	2.1	1.2	1.1	1.3	0.5
29	2.0	1.6	1.0	0.5	1.4	0.9	2.0	1.5	1.3	0.9	1.0	0.5
30	1.7	-----	0.7	0.6	1.2	0.7	2.0	0.8	3.4	0.9	1.4	0.6
31	1.5	-----	0.7	-----	1.0	-----	2.3	0.8	-----	1.5	-----	0.8

1897.

1	0.9	1.9	2.0	2.0	1.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	1.0	2.3	1.5	4.0	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
3	0.8	3.9	1.8	3.7	3.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
4	1.2	3.8	2.0	4.0	3.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
5	1.4	2.4	1.6	8.5	2.0	1.7	1.5	1.5	1.5	1.5	1.5	1.5
6	1.0	14.2	1.4	15.5	1.7	3.9	1.5	3.0	1.5	1.5	1.5	1.5
7	0.9	19.9	1.8	14.9	1.3	3.7	1.5	2.6	1.5	1.5	1.5	1.5
8	0.8	20.0	11.0	9.0	1.3	5.7	1.5	1.5	1.5	1.5	1.5	1.5
9	0.8	12.9	5.0	5.9	1.5	10.7	1.5	1.5	1.5	1.5	1.5	1.3
10	0.8	8.0	3.2	4.0	1.5	7.1	1.5	1.5	1.5	1.5	1.5	1.3
11	0.8	3.5	3.0	3.3	1.5	4.8	1.5	1.5	1.5	1.5	1.5	1.4
12	0.8	8.0	3.5	3.4	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.4
13	0.8	8.0	7.0	3.0	1.8	1.5	1.5	1.5	1.5	3.0	1.5	1.4
14	2.8	6.2	8.2	2.9	2.5	1.5	2.0	1.5	1.5	3.5	1.5	1.5
15	3.0	3.7	12.0	2.4	2.0	1.5	1.5	1.5	1.5	2.0	1.5	1.6
16	2.5	3.0	11.7	2.2	1.7	1.5	1.5	1.5	1.5	1.5	1.5	2.0
17	2.2	4.1	8.7	2.0	2.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1
18	2.0	3.0	5.7	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6
19	3.0	2.8	4.0	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9
20	3.5	2.2	4.7	1.1	1.5	1.5	2.0	1.5	1.5	1.5	1.5	2.0
21	3.9	2.3	4.9	1.1	1.5	1.5	3.5	1.5	1.5	2.0	1.5	2.1
22	7.0	3.4	4.0	0.9	1.5	1.5	3.5	1.5	1.5	2.0	1.5	2.0
23	5.0	2.8	4.4	1.5	1.5	1.5	3.0	3.5	2.0	2.0	1.5	2.2
24	3.9	2.5	3.0	1.5	1.5	1.5	1.5	1.5	2.0	1.5	1.5	1.6
25	3.0	5.1	2.6	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4
26	2.6	7.0	2.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8
27	2.8	3.8	2.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1
28	2.7	3.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	2.0
29	2.4	-----	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.5	2.5	1.4
30	2.0	-----	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	1.3
31	1.9	-----	1.5	-----	1.5	-----	1.5	1.5	-----	1.5	-----	1.2

¹17.8 during day.

DAILY RIVER STAGES.

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Santee River system—Congaree River, Columbia, S. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.3	1.5	1.3	4.8	2.1	1.5	1.1	1.8	2.6	0.7	0.7	1.1
2	1.3	1.5	1.3	3.0	1.7	1.4	1.0	1.7	2.5	0.8	0.6	1.0
3	1.2	1.4	1.3	2.8	1.5	1.4	1.0	1.7	2.2	1.1	0.5	1.1
4	1.2	1.4	2.0	2.5	1.5	1.4	1.0	1.6	2.1	0.6	0.4	1.5
5	1.2	1.3	4.0	2.5	1.3	1.3	1.1	1.6	2.3	0.8	0.4	2.3
6	1.4	1.3	3.5	5.6	1.3	1.3	1.5	1.8	2.0	3.0	0.8	3.5
7	1.4	1.2	2.0	3.8	1.3	1.3	2.2	1.6	3.4	4.1	0.5	2.5
8	1.5	1.2	1.5	3.0	1.2	1.2	2.8	2.5	5.0	2.2	1.0	1.6
9	1.5	1.3	1.4	2.6	1.2	1.2	2.8	2.3	4.2	1.5	0.7	1.3
10	1.5	1.4	1.5	2.5	1.3	1.1	3.0	2.0	2.1	1.3	0.4	0.9
11	1.4	1.4	1.5	2.5	1.3	1.0	2.6	2.6	1.2	1.0	0.5	0.8
12	1.4	1.3	1.4	2.6	1.2	1.0	2.5	2.5	1.0	0.8	0.4	0.7
13	1.3	1.2	1.3	2.2	1.2	1.0	3.8	2.6	1.0	0.7	0.5	0.7
14	1.3	1.2	1.3	2.0	1.2	1.3	3.4	2.7	0.9	0.4	2.6	0.6
15	1.4	1.3	2.0	2.0	1.1	1.0	3.0	2.8	0.9	0.4	1.8	0.6
16	1.4	1.3	2.1	1.7	1.2	1.1	2.6	2.9	0.8	0.3	1.5	0.5
17	1.3	1.4	1.6	1.5	1.2	1.8	2.1	3.5	0.7	0.3	2.5	0.5
18	1.3	1.4	1.6	1.4	1.2	2.0	1.9	3.3	0.7	0.3	2.8	0.3
19	1.4	1.4	1.5	1.4	1.3	2.0	1.8	2.7	0.6	0.5	2.0	0.5
20	1.5	1.4	1.4	1.4	1.2	2.2	1.7	5.0	0.5	1.0	2.0	0.5
21	1.5	1.5	1.5	1.3	1.2	2.0	1.7	4.2	0.4	1.2	1.4	0.6
22	1.5	1.5	1.4	1.3	1.1	1.9	1.7	2.8	0.6	1.3	1.0	1.6
23	1.4	1.5	1.3	1.3	1.2	1.8	1.6	2.5	0.6	6.2	0.9	1.7
24	1.4	1.5	1.4	1.5	1.3	1.5	1.8	2.0	5.3	4.2	0.7	2.5
25	1.5	1.3	1.2	3.0	1.4	1.5	2.8	2.0	10.2	2.2	0.7	2.8
26	4.8	1.0	1.2	2.2	1.5	1.4	2.8	4.7	5.1	1.3	0.8	2.4
27	4.5	1.3	1.2	2.5	1.5	1.8	3.6	3.4	2.8	1.2	0.7	1.4
28	3.4	1.3	1.2	4.0	1.4	1.8	3.4	2.8	1.1	1.0	0.8	1.0
29	2.0	-----	1.2	2.7	1.4	1.6	3.0	2.2	0.9	0.8	0.9	0.9
30	1.8	-----	1.3	2.6	1.4	1.3	2.6	3.5	0.7	0.8	1.0	0.8
31	1.8	-----	4.1	-----	1.3	-----	2.0	4.1	-----	0.7	-----	0.7

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.6	2.7	14.0	6.8	1.3	0.7	0.4	0.8	1.4	0.0	2.5	0.5
2	1.0	2.2	9.0	4.5	1.2	0.7	0.0	0.7	1.2	0.2	1.4	0.4
3	1.2	1.9	5.3	2.8	1.2	0.7	0.2	0.6	0.7	0.0	1.4	0.3
4	1.0	1.8	4.2	2.5	1.1	0.4	-0.2	0.4	0.7	0.2	1.5	0.4
5	0.7	2.0	3.8	2.7	1.2	0.5	0.0	0.3	0.5	0.3	0.3	0.3
6	0.6	9.5	5.5	2.9	1.1	0.3	0.0	-0.2	0.3	3.7	0.2	0.2
7	1.4	17.0	3.8	2.5	1.1	0.5	0.0	0.0	0.2	2.7	0.2	0.2
8	8.5	21.3	2.9	4.3	1.4	0.5	0.4	0.0	0.3	1.3	0.1	0.2
9	7.5	18.7	2.4	5.2	1.2	0.5	0.0	0.0	0.3	1.5	-0.1	0.3
10	5.2	12.6	2.2	4.5	1.3	0.4	0.0	0.1	0.5	0.6	0.2	0.0
11	3.3	8.4	2.1	2.9	1.1	0.1	0.4	0.2	1.8	0.4	0.2	0.2
12	4.6	4.0	1.9	2.4	1.0	0.9	0.3	0.1	4.5	0.3	-0.2	0.8
13	4.2	3.6	1.8	2.3	1.0	0.8	0.3	0.8	2.2	0.3	0.2	4.0
14	3.8	2.6	1.8	2.0	0.8	1.1	0.2	0.5	1.3	0.2	0.1	1.0
15	4.7	2.3	2.1	1.8	0.6	1.0	-0.3	0.4	0.3	0.1	0.1	0.6
16	3.5	5.2	7.8	1.7	1.2	0.8	0.0	0.2	0.2	0.2	0.3	0.4
17	4.0	14.9	12.0	1.6	0.9	0.6	0.0	0.2	-0.2	0.3	0.3	0.5
18	3.1	15.1	8.7	1.5	0.8	0.3	0.0	0.1	0.1	0.2	0.2	0.6
19	2.2	11.0	7.6	1.5	0.8	0.5	0.0	0.0	0.0	0.3	0.0	0.4
20	1.7	6.8	11.0	1.6	0.8	0.5	0.1	0.0	0.1	0.2	0.2	0.4
21	1.5	3.4	13.1	1.7	0.4	0.4	0.2	0.1	0.2	0.1	0.1	0.3
22	1.0	4.2	7.0	1.5	0.7	0.4	0.1	0.0	0.3	0.1	0.0	0.3
23	1.2	3.3	4.8	1.3	0.7	0.3	-0.2	0.0	0.2	0.3	-0.1	0.2
24	1.3	2.6	3.8	1.4	1.0	0.3	0.0	0.1	0.2	0.0	1.2	2.5
25	1.5	2.4	3.5	1.3	0.9	0.0	0.2	0.0	0.2	0.1	0.8	4.2
26	1.4	2.1	3.0	2.5	0.7	0.2	0.0	0.2	0.2	0.2	1.7	2.2
27	1.4	14.3	2.7	3.3	0.8	0.2	1.4	0.2	0.1	0.3	2.4	1.7
28	1.3	17.6	3.0	2.3	0.5	0.2	2.0	0.4	0.3	0.3	2.0	1.0
29	1.2	-----	4.2	1.6	0.6	0.7	1.3	2.2	0.2	0.1	1.0	1.4
30	2.4	-----	4.4	1.3	0.6	0.5	0.8	1.7	0.1	0.2	0.6	0.7
31	2.5	-----	4.2	-----	0.5	-----	0.8	1.5	-----	2.0	-----	0.5

DAILY RIVER STAGES.

Savannah River system—Savannah River, Calhoun Falls, S. C.

1897.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.5	2.8	3.0	5.4	3.8	2.2	2.8	2.5	2.2	1.8	2.6	2.8
2	2.4	5.2	3.0	6.9	5.6	2.2	2.6	2.4	2.4	1.8	3.4	2.7
3	2.4	4.0	2.8	5.2	4.3	3.0	2.6	2.4	2.3	1.8	3.0	2.8
4	2.4	3.6	2.8	4.8	4.0	4.4	2.4	2.2	2.2	1.8	2.7	3.0
5	2.4	3.2	2.8	11.6	3.8	4.1	2.3	2.1	2.0	1.8	2.6	2.9
6	2.4	6.0	2.6	13.4	3.8	3.1	3.0	2.6	2.0	1.8	2.4	2.8
7	2.3	8.6	6.8	8.2	3.7	3.0	2.5	3.0	2.0	1.8	2.4	2.7
8	2.2	7.2	4.6	5.0	3.6	3.0	2.4	2.9	2.0	1.7	2.2	2.6
9	2.2	5.0	4.2	4.0	3.4	3.2	2.6	2.7	1.9	1.6	2.2	2.6
10	2.2	4.1	4.0	4.0	3.2	3.0	2.4	2.6	1.8	1.8	2.2	2.6
11	2.2	3.8	4.4	4.2	3.2	3.0	2.5	2.4	1.8	2.2	2.2	2.5
12	2.2	5.2	5.5	4.1	3.0	2.8	2.6	2.3	1.8	2.6	2.1	2.4
13	2.3	4.4	7.2	4.0	3.0	3.0	3.2	2.2	1.8	2.4	2.1	2.4
14	3.0	4.1	7.8	4.0	3.0	2.8	2.6	2.2	1.8	2.2	2.0	3.0
15	2.8	4.0	6.0	4.0	3.1	2.8	2.6	2.2	1.8	2.2	2.0	2.8
16	2.6	4.0	5.2	3.8	3.2	3.0	2.4	2.2	1.8	2.2	2.0	2.7
17	2.6	4.0	4.2	3.8	3.1	3.0	2.5	2.2	1.8	2.1	2.0	2.6
18	3.4	3.8	3.8	3.8	3.0	3.0	3.9	2.2	1.7	2.2	2.0	2.6
19	3.1	3.6	3.5	3.6	3.0	2.8	3.3	2.3	1.7	2.4	2.0	2.5
20	2.9	3.7	4.0	3.5	3.0	2.8	3.1	2.2	1.8	3.0	2.0	2.4
21	5.4	3.5	5.4	3.4	2.9	2.7	4.0	2.2	1.8	2.6	2.0	2.5
22	4.0	3.4	4.4	3.4	2.9	2.6	3.4	2.7	1.8	2.4	1.9	2.6
23	3.6	4.0	4.1	3.3	2.8	2.6	3.0	2.6	2.8	2.4	1.9	2.6
24	3.2	3.8	4.0	3.2	2.8	2.6	2.8	2.4	2.2	2.3	1.8	2.6
25	3.1	4.0	3.9	3.2	2.7	2.4	2.6	2.3	2.0	2.2	1.8	2.5
26	3.0	3.9	3.6	3.3	2.6	2.5	3.0	2.2	2.0	2.3	2.0	2.5
27	3.0	3.4	3.0	3.2	2.6	2.4	3.5	2.2	2.0	2.2	3.2	2.4
28	3.0	3.2	3.4	3.2	2.4	2.3	3.0	2.2	2.0	2.2	3.0	2.4
29	2.9	-----	3.2	3.2	2.4	3.5	2.9	2.1	1.9	2.2	3.0	2.4
30	2.9	-----	3.2	3.4	2.2	3.0	2.7	2.0	1.8	2.2	2.8	2.4
31	2.8	-----	3.3	-----	2.2	-----	2.6	2.0	-----	2.1	-----	2.3

1898.¹

1	2.3	3.2	2.3	4.6	2.6	1.8	1.8	3.2	-----	-----	-----	-----
2	2.3	3.1	2.4	3.4	2.8	1.8	1.7	3.0	-----	-----	-----	-----
3	2.2	3.0	2.4	3.2	2.8	1.8	1.6	3.6	-----	-----	-----	-----
4	2.2	2.9	2.8	3.0	2.8	1.8	1.6	3.0	-----	-----	-----	-----
5	2.2	2.8	3.0	4.4	2.8	2.0	1.9	2.8	-----	-----	-----	-----
6	2.4	2.8	2.8	4.0	2.7	2.0	2.4	2.5	-----	-----	-----	-----
7	2.4	2.8	2.6	3.8	2.6	2.0	2.8	5.0	-----	-----	-----	-----
8	2.3	2.6	2.6	3.6	2.6	2.0	4.0	4.4	-----	-----	-----	-----
9	2.2	2.6	2.5	3.2	2.5	1.8	3.0	3.2	-----	-----	-----	-----
10	2.2	2.6	2.4	3.0	2.5	1.8	2.6	-----	-----	-----	-----	-----
11	2.2	2.6	2.4	3.2	2.4	1.8	2.4	-----	-----	-----	-----	-----
12	2.2	2.6	2.2	3.0	2.2	1.8	2.3	-----	-----	-----	-----	-----
13	2.2	2.5	2.2	3.0	2.2	2.0	2.5	-----	-----	-----	-----	-----
14	2.2	2.5	2.2	3.0	2.0	1.9	4.9	-----	-----	-----	-----	-----
15	2.2	2.4	2.5	2.9	2.2	1.9	5.0	-----	-----	-----	-----	-----
16	2.4	2.4	2.4	2.7	2.1	2.0	4.0	-----	-----	-----	-----	-----
17	2.4	2.4	2.4	2.6	2.0	2.0	3.6	-----	-----	-----	-----	-----
18	2.4	2.3	2.4	2.6	2.0	2.0	3.4	-----	-----	-----	-----	-----
19	2.4	2.3	2.3	2.5	2.0	2.2	3.2	-----	-----	-----	-----	-----
20	2.8	2.3	2.3	2.6	2.0	2.4	3.0	-----	-----	-----	-----	-----
21	2.7	2.4	2.3	2.5	1.9	2.0	2.8	-----	-----	-----	-----	-----
22	2.6	2.3	2.2	2.4	2.0	2.0	2.5	-----	-----	-----	-----	-----
23	2.9	2.3	2.2	2.4	2.0	2.0	2.8	-----	-----	-----	-----	-----
24	2.8	2.2	2.2	2.8	2.0	1.9	4.0	-----	-----	-----	-----	-----
25	3.6	2.2	2.2	3.0	1.9	1.8	4.5	-----	-----	-----	-----	-----
26	5.5	2.2	2.2	2.8	1.8	1.9	4.0	-----	-----	-----	-----	-----
27	4.6	2.4	2.2	3.0	1.8	1.8	3.8	-----	-----	-----	-----	-----
28	4.0	2.4	2.2	2.9	1.8	1.8	4.0	-----	-----	-----	-----	-----
29	3.8	-----	2.3	2.8	1.8	1.8	3.8	-----	-----	-----	-----	-----
30	3.6	-----	3.9	2.7	1.8	1.8	3.9	-----	-----	-----	-----	-----
31	3.4	-----	6.8	-----	1.8	-----	3.6	-----	-----	-----	-----	-----

¹U. S. Geological Survey Records.

DAILY RIVER STAGES.

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Savannah River system—Savannah River, Calhoun Falls, S. C.—Continued.

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1				6.6	4.0	3.3	3.2	3.3	3.0	2.2	2.6	2.7
2				5.0	3.9	3.2	3.0	3.1	2.9	2.1	2.5	2.8
3				4.8	3.8	3.2	2.9	3.0	2.9	2.1	2.5	2.7
4			4.9	4.9	3.8	3.2	2.7	2.9	2.8	2.2	2.4	2.7
5			4.9	4.7	3.7	3.1	2.7	2.8	2.7	2.4	2.4	2.6
6			4.6	4.7	3.9	3.0	2.6	2.7	2.9	3.0	2.4	2.6
7			4.4	4.7	4.0	2.9	2.7	2.6	2.9	2.8	2.5	2.6
8			4.3	4.6	3.9	3.0	2.7	2.6	3.0	3.9	2.4	2.5
9			4.2	5.6	3.8	3.3	3.0	3.0	3.0	3.5	2.3	2.5
10			4.2	5.1	3.8	3.2	2.9	2.9	2.9	3.2	2.2	2.4
11			4.0	4.9	3.7	3.4	2.8	2.8	3.2	3.0	2.2	2.5
12			3.9	4.8	3.7	3.5	2.8	2.8	3.0	2.7	2.1	4.9
13			4.0	4.7	3.7	5.0	2.7	2.7	3.0	2.5	2.1	5.0
14			4.0	4.5	3.6	3.9	2.6	2.7	2.9	2.4	2.0	3.8
15			5.2	4.3	3.5	3.7	2.5	2.6	2.9	2.3	2.1	3.5
16			13.6	4.0	3.4	3.6	2.4	2.6	2.8	2.4	2.1	3.3
17			9.0	3.8	3.4	3.6	2.4	2.6	2.7	2.4	2.0	3.1
18			6.9	3.7	3.4	3.5	2.3	2.6	2.6	2.3	2.0	3.0
19			7.0	3.7	3.5	3.3	2.4	2.5	2.6	2.3	2.0	3.0
20			9.0	3.5	3.5	3.2	2.3	2.5	2.9	2.4	2.0	2.9
21			7.0	3.4	3.4	3.1	2.2	2.6	2.9	2.3	2.1	2.9
22			5.0	3.2	3.5	3.0	2.3	2.8	2.8	2.3	2.1	2.8
23			5.0	3.0	3.7	3.0	2.3	3.0	2.6	2.3	2.3	2.7
24			4.9	2.9	3.5	2.9	2.3	2.9	2.5	2.2	2.3	3.9
25			5.0	4.0	3.5	2.9	2.4	2.7	2.4	2.2	2.4	3.8
26			5.1	4.6	3.4	3.0	2.7	2.7	2.6	2.2	4.0	3.5
27			4.9	5.1	3.2	3.9	4.7	2.8	2.4	2.1	3.4	3.5
28			4.8	5.0	3.2	4.0	5.0	3.0	2.3	2.1	3.2	3.6
29			6.9	4.7	3.2	3.6	3.5	2.9	2.3	2.2	2.9	3.7
30			5.1	4.1	3.1	3.3	3.6	3.5	2.2	2.3	2.8	3.6
31			7.0		3.3		3.4	3.2		2.5		3.4

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DAILY RIVER STAGES.

*Savannah River system—Savannah River, Augusta, Ga.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.0	8.3	10.3	7.8	8.4	5.1	4.7	5.9	4.5	8.7	5.0	14.5
2	10.3	8.2	9.1	7.9	7.3	5.5	4.3	6.2	4.3	6.2	5.8	16.0
3	8.7	9.8	8.3	9.6	7.7	7.7	4.4	7.0	4.2	5.3	5.5	16.8
4	7.9	13.3	7.8	8.8	8.2	8.8	4.3	6.6	4.2	5.0	5.2	14.5
5	7.3	12.0	7.7	7.5	10.6	8.2	9.8	6.4	4.0	4.7	15.2	13.0
6	7.0	19.1	7.5	7.0	9.7	7.5	6.3	6.3	4.9	4.5	20.9	11.2
7	6.7	22.7	7.6	7.1	9.9	6.5	8.8	5.7	11.2	4.3	17.3	10.1
8	6.7	20.5	8.0	6.9	8.2	5.8	22.4	5.2	8.7	4.1	11.0	10.2
9	7.2	24.2	8.0	6.8	7.2	5.7	29.2	4.9	6.1	3.9	8.1	9.8
10	8.0	24.3	7.8	6.7	6.7	5.7	30.2	4.8	5.2	3.8	7.0	9.2
11	7.6	19.5	7.5	6.6	6.3	5.7	25.8	4.8	4.8	4.0	6.6	8.9
12	6.9	14.8	9.6	7.2	6.0	6.4	20.1	5.2	4.7	3.8	6.0	8.4
13	6.7	12.7	10.5	6.5	5.9	6.0	15.0	5.3	4.9	3.8	9.6	7.9
14	6.5	11.2	9.9	6.6	5.8	5.5	11.7	4.9	4.4	3.9	13.4	7.3
15	6.4	12.0	8.0	6.5	5.7	5.0	9.5	6.0	4.2	4.0	10.6	8.3
16	6.5	11.6	7.7	6.5	5.7	4.9	8.6	6.0	4.2	4.7	8.3	17.6
17	10.3	10.4	7.7	6.3	5.6	4.7	8.0	5.8	4.0	4.1	7.2	15.4
18	16.7	9.6	7.8	6.2	5.5	4.6	8.0	5.5	4.2	4.2	6.8	11.8
19	14.5	9.1	7.6	6.3	5.4	4.8	8.0	5.0	4.0	3.9	6.2	9.9
20	11.0	8.8	8.0	6.2	5.2	6.2	8.8	4.9	4.8	3.9	6.0	8.3
21	8.9	8.6	8.2	5.9	5.1	6.1	8.8	4.8	3.9	3.8	6.0	8.0
22	8.3	8.2	8.4	5.8	5.0	5.9	8.8	4.6	3.8	3.7	5.9	7.2
23	9.0	7.9	8.0	5.8	4.9	6.0	8.4	4.5	3.8	3.4	5.7	7.3
24	17.8	8.0	7.7	5.7	5.8	5.9	8.6	4.4	3.9	3.5	5.6	6.9
25	22.2	8.0	7.8	8.8	6.3	5.8	7.8	3.9	5.2	4.8	5.4	6.9
26	18.5	8.0	8.0	7.7	6.6	5.3	7.2	5.2	4.9	5.9	5.3	6.6
27	14.1	7.9	7.7	7.2	5.9	5.0	6.2	4.9	4.8	5.5	5.5	6.1
28	11.3	7.8	7.6	6.9	5.8	4.9	6.0	5.8	4.0	5.0	5.3	6.5
29	9.9	9.2	7.2	6.8	5.7	4.9	6.8	5.7	3.9	4.8	6.3	6.0
30	9.0		7.1	6.8	5.7	4.8	7.0	5.8	10.1	4.4	9.4	5.9
31	8.7		7.1		5.6		6.6	4.9		4.0		5.8

1897.

1	6.0	7.2	11.1	11.0	8.9	6.8	8.9	5.8	5.0	4.7	5.0	7.9
2	6.1	10.3	10.0	19.2	16.9	6.8	6.7	5.8	6.1	4.8	4.9	7.4
3	6.0	15.5	9.5	18.0	15.5	6.5	5.9	5.6	6.3	4.8	6.9	6.8
4	6.2	14.2	9.3	17.7	11.2	8.3	6.0	5.4	6.8	4.7	8.0	6.4
5	6.5	11.6	9.5	19.4	9.8	7.5	5.8	5.6	6.8	4.3	6.8	6.9
6	6.4	23.3	9.2	28.5	9.1	8.5	8.2	5.5	5.4	4.2	6.0	7.3
7	6.8	27.1	14.6	27.0	8.8	8.7	9.7	10.4	4.9	4.2	6.2	7.0
8	6.5	25.2	20.1	19.5	8.7	8.4	8.2	10.5	4.8	4.3	4.9	7.3
9	6.2	18.3	15.6	15.5	8.4	9.5	7.3	8.6	4.8	4.1	5.4	6.9
10	6.0	14.4	12.5	15.6	8.2	11.7	7.1	6.8	4.8	4.0	5.0	6.6
11	6.2	12.1	11.1	14.7	8.2	9.3	7.8	6.1	4.8	3.9	5.0	6.4
12	5.9	20.3	11.2	12.8	8.2	8.0	7.3	5.9	4.8	6.6	5.2	6.0
13	5.8	22.8	18.6	11.8	8.3	7.1	8.0	5.8	4.9	7.8	5.0	5.9
14	6.8	19.9	23.9	11.2	9.8	6.9	8.8	5.5	4.6	8.5	5.0	6.0
15	12.4	15.6	25.2	10.8	9.7	6.8	7.0	5.7	4.3	6.9	5.0	6.0
16	11.7	13.0	23.8	10.7	9.0	7.5	6.0	5.3	4.2	6.0	4.9	6.6
17	10.1	14.1	19.3	10.8	8.2	8.5	5.7	10.7	4.4	5.6	4.9	7.5
18	9.2	12.9	17.0	10.2	8.0	8.6	8.2	9.5	4.2	5.3	4.9	6.6
19	13.4	11.1	14.4	10.0	7.8	7.1	9.5	10.8	4.3	5.2	4.9	6.5
20	11.8	10.2	13.8	9.5	7.7	6.9	16.6	16.6	4.8	5.9	4.9	6.2
21	10.2	11.0	16.7	9.4	7.7	6.9	15.5	12.0	4.7	7.7	4.9	6.3
22	20.8	12.5	15.3	9.2	7.4	7.0	14.2	20.3	4.5	8.4	4.9	6.8
23	17.9	11.8	13.6	9.0	7.6	6.5	11.3	16.8	12.2	6.9	4.9	7.0
24	13.4	13.3	14.5	9.1	7.3	6.1	8.8	12.2	12.5	6.1	4.8	7.6
25	10.7	15.0	13.7	9.1	7.2	6.0	7.5	10.6	8.9	5.8	4.9	7.4
26	9.2	20.3	12.1	8.8	7.0	6.1	6.8	8.8	6.6	5.6	5.0	7.0
27	8.8	18.0	10.9	8.8	7.0	6.6	7.0	6.7	5.3	5.3	5.0	7.5
28	8.3	13.6	10.5	8.8	6.8	6.2	10.7	5.9	5.1	5.2	8.6	8.6
29	8.0		9.8	8.5	6.8	5.9	8.7	5.7	5.0	5.0	9.4	8.2
30	7.6		9.3	8.5	6.9	9.3	7.4	5.5	4.9	5.0	8.8	7.7
31	7.0		9.4		6.8		6.0	5.3		5.0		6.9

DAILY RIVER STAGES.

403

Savannah River system—Savannah River, Augusta, Ga.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.5	7.8	6.0	15.9	8.3	4.5	4.0	8.0	15.3	7.2	8.4	10.0
2	6.3	7.5	5.9	12.5	7.6	4.7	3.8	7.8	28.4	7.1	8.0	9.2
3	6.2	7.1	5.9	9.7	7.3	4.7	4.0	6.9	28.4	7.2	7.9	9.6
4	6.0	6.8	6.2	8.5	7.0	4.5	4.2	6.5	27.8	17.9	7.8	12.7
5	5.9	6.7	10.0	9.0	6.8	4.4	3.7	8.4	27.0	17.8	7.6	16.2
6	6.0	6.5	9.1	17.7	6.5	4.2	3.3	15.5	22.6	24.0	7.6	14.8
7	6.2	6.4	7.6	18.0	6.5	4.6	8.4	12.4	18.2	23.4	8.3	12.4
8	6.3	6.5	6.8	14.0	6.8	4.5	10.6	10.7	15.9	16.7	8.7	10.5
9	5.9	6.3	6.5	10.9	6.0	4.4	12.4	10.4	17.9	13.5	7.8	9.6
10	6.1	6.3	6.0	9.0	6.1	4.4	9.9	9.2	13.7	11.4	7.5	9.0
11	6.0	6.1	6.0	8.5	5.9	4.0	12.3	8.3	11.5	10.7	7.4	8.8
12	6.0	6.2	6.0	8.9	5.9	4.8	8.5	10.0	9.9	9.8	7.8	8.8
13	6.2	6.1	6.0	8.4	5.9	4.4	9.6	11.1	9.0	9.3	8.2	8.5
14	6.3	6.0	6.0	8.0	5.9	4.2	14.0	14.4	8.7	9.0	10.1	8.4
15	6.3	6.0	8.7	8.5	6.7	4.2	16.4	11.8	8.5	8.6	11.0	8.1
16	6.1	5.9	11.8	8.2	6.0	4.4	17.5	13.5	8.2	8.8	10.3	8.0
17	6.1	5.9	9.0	7.9	5.6	4.5	13.9	10.8	8.0	7.8	17.4	7.9
18	6.0	5.9	8.0	7.2	5.5	5.3	9.4	9.6	7.9	7.6	15.5	8.0
19	6.0	6.2	7.6	7.0	5.7	6.1	7.8	11.8	7.1	8.4	14.3	7.9
20	6.0	6.2	7.5	6.9	5.6	8.0	6.9	19.9	7.6	12.0	15.0	8.0
21	6.0	6.5	6.9	7.0	5.8	9.7	6.4	15.0	7.4	9.6	13.1	8.5
22	8.2	6.5	6.5	7.2	5.6	8.4	5.9	11.8	7.3	15.5	10.8	10.8
23	8.8	6.0	6.5	6.8	5.4	7.0	5.7	9.9	7.9	17.2	9.5	10.2
24	7.2	5.9	6.4	9.2	5.2	5.7	9.8	8.7	13.0	13.8	9.4	13.5
25	7.5	5.9	6.0	11.8	5.3	5.0	17.7	7.9	11.8	11.0	10.3	13.3
26	12.4	5.9	5.9	11.2	5.9	5.3	15.5	8.4	9.4	9.6	9.3	11.2
27	16.7	5.8	5.9	9.1	5.7	4.5	13.2	10.5	8.3	9.0	9.0	10.0
28	14.2	5.9	5.8	10.9	5.6	4.3	10.4	14.8	7.9	8.6	8.8	9.3
29	11.0	-----	6.0	11.1	5.5	4.2	10.9	12.6	7.4	8.5	8.5	9.0
30	9.0	-----	5.4	9.8	4.6	4.0	11.3	15.9	7.3	8.2	9.4	8.6
31	8.2	-----	13.5	-----	4.8	-----	9.0	15.7	-----	8.3	-----	8.5

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.6	12.7	28.5	19.6	9.6	7.9	7.2	7.4	13.9	5.2	5.5	7.3
2	10.8	13.0	21.0	18.9	9.5	8.3	7.0	6.7	11.0	4.8	6.2	6.9
3	10.2	14.4	16.2	15.3	9.3	7.7	6.2	6.3	9.2	4.7	6.0	6.8
4	9.0	15.3	14.3	15.0	9.2	7.5	6.0	6.2	8.3	4.8	5.8	7.0
5	8.6	14.5	13.9	12.9	9.2	7.4	6.0	6.0	7.4	4.9	5.6	6.7
6	8.5	20.8	16.2	13.0	9.8	7.3	6.0	5.9	6.8	11.4	5.3	6.4
7	12.8	28.0	15.2	12.2	10.2	7.2	5.8	5.7	6.3	10.3	5.3	6.3
8	22.9	30.9	13.3	12.4	10.4	7.0	6.7	5.5	6.5	8.8	5.3	6.1
9	19.2	29.6	12.2	15.6	9.8	7.0	7.0	5.8	7.0	14.0	5.3	6.0
10	14.3	22.8	11.8	14.2	9.1	6.9	8.3	6.0	6.8	13.0	5.4	6.0
11	12.8	18.3	11.5	12.8	8.9	6.9	7.8	5.9	7.1	9.4	5.0	6.1
12	17.2	14.8	11.2	12.0	8.5	6.9	6.5	8.0	9.5	7.3	5.8	6.2
13	17.4	13.8	11.2	11.6	8.5	7.5	6.0	8.6	8.8	6.8	4.9	10.7
14	15.3	13.2	11.1	11.2	8.5	9.8	6.0	6.4	7.0	6.4	5.2	14.5
15	15.4	12.3	11.0	11.0	8.3	9.7	6.0	6.0	6.3	6.0	5.2	10.6
16	14.5	14.4	18.8	10.8	8.1	8.2	5.9	5.6	5.8	5.9	5.1	8.5
17	17.2	25.0	25.6	10.5	8.2	8.0	5.7	5.4	5.5	5.8	5.5	7.9
18	16.7	24.2	21.5	10.5	8.0	8.7	5.6	5.0	3.9	5.8	5.2	7.3
19	13.9	19.1	20.7	10.2	8.0	7.9	5.9	5.0	5.1	5.8	5.1	7.4
20	11.8	15.3	20.5	10.5	7.9	7.8	5.8	5.0	5.2	5.7	5.2	7.0
21	10.7	13.5	22.4	10.4	7.9	7.4	5.6	4.8	5.2	5.9	5.5	6.8
22	10.1	14.8	17.8	10.0	7.8	7.0	5.3	4.7	5.9	7.0	5.4	6.9
23	9.9	14.3	15.0	9.9	9.4	6.8	5.3	5.2	5.7	6.0	5.3	7.4
24	9.8	13.0	15.5	9.7	8.3	6.7	5.5	4.8	5.2	5.7	7.0	9.3
25	11.7	11.8	15.6	10.0	8.0	6.6	5.7	5.9	5.4	5.3	8.2	13.8
26	10.8	11.5	13.8	11.5	7.8	6.3	6.5	5.6	5.2	5.3	8.4	12.2
27	10.2	17.7	13.0	13.0	7.7	6.8	7.0	7.0	4.4	5.2	11.3	9.8
28	10.0	29.8	13.4	11.3	7.5	7.5	12.7	13.2	5.2	5.4	10.4	9.2
29	11.1	-----	14.0	10.4	7.4	7.8	11.6	11.3	5.5	5.6	8.7	8.0
30	11.2	-----	14.9	10.0	7.4	7.4	9.3	9.2	5.3	4.9	7.8	8.2
31	10.5	-----	13.5	-----	7.3	-----	8.4	11.4	-----	5.8	-----	7.8

DAILY RIVER STAGES.

Savannah River system—Broad River, Carlton, Ga.

1897.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1							1.8	1.8	1.7	1.5	1.6	2.2
2							1.8	1.8	2.0	1.5	2.4	2.1
3							1.8	1.8	2.3	1.5	2.2	2.2
4							1.8	1.8	1.8	1.5	2.0	2.7
5							2.0	1.8	1.8	1.5	1.8	2.6
6							2.0	1.8	1.7	1.5	1.8	2.5
7							1.9	2.6	1.6	1.5	1.8	2.3
8							2.1	2.2	1.6	1.5	1.8	2.1
9							2.4	2.0	1.6	1.5	1.8	2.0
10							2.0	2.0	1.6	1.5	1.7	2.0
11							2.6	2.0	1.6	1.6	1.7	2.0
12							2.4	1.9	1.6	2.4	1.7	2.0
13							2.0	1.8	1.5	2.5	1.7	1.9
14							1.8	1.8	1.5	2.0	1.7	2.1
15							1.8	1.8	1.5	1.8	1.7	2.3
16							1.8	4.6	1.5	1.7	1.7	2.1
17							1.8	3.3	1.5	1.6	1.7	2.0
18							3.6	2.0	1.5	1.8	1.7	2.0
19							4.9	1.9	1.5	2.0	1.6	2.0
20							6.3	2.0	1.5	2.4	1.6	2.1
21							5.3	2.0	1.5	2.2	1.7	2.1
22							3.8	2.2	1.5	2.1	1.7	2.2
23							2.9	2.0	1.7	1.8	1.7	2.4
24							2.3	2.0	1.7	1.8	1.7	2.2
25							2.2	1.8	1.6	1.7	1.7	2.1
26							2.2	1.8	1.6	1.6	1.7	2.3
27							2.2	1.8	1.6	1.7	3.2	2.6
28							2.3	1.8	1.6	1.6	2.8	2.3
29							2.1	1.7	1.6	1.6	2.3	2.2
30							2.0	1.7	1.5	1.6	2.7	2.1
31							1.9	1.6		1.6		2.1

1898.¹

1	2.0	2.2	1.9	3.6	2.2	1.6	1.4	2.1	9.1	2.2	2.4	2.8
2	2.0	2.2	1.9	2.8	2.2	1.6	1.4	2.0	18.8	2.1	2.4	2.6
3	2.0	2.1	2.0	2.4	2.0	1.6	1.4	1.8	18.5	3.2	2.3	2.8
4	2.0	2.0	2.1	2.3	2.0	1.6	1.4	3.0	13.4	4.8	2.3	3.9
5	2.0	2.0	2.2	5.2	2.0	1.6	1.8	3.8	7.9	11.2	2.3	3.5
6	2.0	2.0	2.0	4.4	2.0	1.5	2.8	4.0	5.0	10.1	3.2	3.1
7	2.0	2.0	2.0	3.0	2.0	1.4	3.5	4.2	4.6	4.4	2.4	2.8
8	2.0	2.0	2.0	2.6	2.0	1.4	2.6	3.4	4.5	3.2	2.4	2.7
9	2.0	2.0	1.9	2.4	2.0	1.4	2.3	2.5	3.5	2.9	2.4	2.6
10	1.9	2.0	1.9	2.4	1.9	1.4	2.0	2.2	2.9	2.7	2.6	2.6
11	1.9	2.0	1.8	2.4	1.9	1.4	1.7	3.0	2.8	2.6	2.4	2.6
12	1.9	2.0	1.8	2.4	1.9	1.4	1.6	6.2	2.7	2.5	2.4	2.5
13	1.9	2.0	1.8	2.2	1.8	2.0	1.9	4.0	2.6	2.4	2.4	2.5
14	1.9	2.0	2.4	2.3	1.8	1.6	4.2	3.5	2.4	2.4	3.0	2.4
15	1.9	2.0	2.8	2.3	1.8	1.5	3.8	3.0	2.4	2.3	2.9	2.4
16	1.9	1.9	2.4	2.2	1.8	1.5	3.6	2.7	2.4	2.2	2.8	2.4
17	1.8	1.9	2.4	2.2	1.8	1.5	2.6	2.4	2.4	2.2	3.0	2.4
18	1.8	2.0	2.4	2.1	1.8	2.4	2.0	3.2	2.2	2.7	3.0	2.4
19	1.8	2.0	2.2	2.0	1.8	2.4	1.8	7.0	2.2	3.4	3.6	2.4
20	2.2	2.0	2.1	2.1	2.1	2.2	1.8	3.6	2.2	2.6	3.4	2.7
21	2.6	2.0	2.0	2.0	1.8	1.8	1.7	3.0	2.2	3.6	2.9	3.0
22	2.4	2.0	2.0	2.0	1.8	1.6	1.6	2.8	2.2	4.4	2.7	3.6
23	2.2	2.0	2.0	2.0	1.8	1.6	9.0	2.6	2.4	3.6	2.7	4.0
24	2.9	1.9	2.0	3.0	2.0	1.6	6.0	2.2	3.4	3.0	2.6	4.8
25	4.9	1.9	1.9	2.8	2.1	1.5	4.2	2.1	2.6	2.6	2.6	3.6
26	5.1	1.8	1.9	2.3	1.8	1.5	3.1	2.4	2.4	2.6	2.5	3.1
27	3.3	1.9	1.9	2.6	1.8	2.3	2.6	2.6	2.2	2.4	2.4	2.8
28	3.0	2.0	1.8	3.3	1.6	1.6	6.4	3.0	2.2	2.4	2.4	2.7
29	2.7		2.0	2.6	1.6	1.5	4.6	2.7	2.2	2.4	2.8	2.6
30	2.5		3.4	2.4	1.6	1.4	2.7	2.5	2.2	2.4	3.0	2.6
31	2.4		4.4		1.6		2.4	2.4		2.4		2.6

¹ U. S. Geological Survey Records.

DAILY RIVER STAGES.

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*Savannah River system—Broad River, Carlton, Ga.—Continued.*1899.¹

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.1	3.4	5.2	5.8	3.0	2.6	2.3	2.4	3.8	1.9	2.1	2.3
2	3.0	3.0	4.1	4.4	3.0	2.6	2.3	2.3	3.0	1.9	2.1	2.4
3	2.8	3.8	3.8	3.6	3.0	2.5	2.2	2.3	2.5	1.9	2.1	2.3
4	2.7	3.7	3.6	3.6	2.9	2.5	2.2	2.2	2.3	1.9	2.1	2.3
5	2.6	4.3	3.9	3.7	3.2	2.5	2.2	2.2	2.2	2.0	2.0	2.3
6	4.4	7.2	4.2	3.5	3.2	2.4	2.2	2.1	2.1	2.2	2.0	2.3
7	6.4	13.2	4.6	3.6	3.2	2.4	2.2	2.1	2.1	2.1	2.0	2.2
8	6.4	10.6	3.4	4.4	3.0	2.5	2.4	2.1	2.1	4.3	2.0	2.2
9	3.9	5.4	3.4	4.2	2.9	2.6	2.3	2.1	2.1	3.4	2.0	2.2
10	3.3	4.3	3.4	3.6	2.9	2.5	2.4	2.1	2.1	2.5	2.0	2.2
11	3.8	3.8	3.3	3.5	2.9	2.4	2.3	2.1	2.5	2.3	2.0	2.2
12	4.0	3.6	3.3	3.4	2.9	2.6	2.2	2.1	2.1	2.2	2.0	3.4
13	3.7	3.4	3.3	3.3	2.8	3.7	2.2	2.1	2.1	2.2	2.0	3.6
14	3.4	3.4	3.5	3.3	2.8	3.0	2.2	2.0	2.0	2.1	2.0	3.0
15	3.8	3.3	4.4	3.2	2.7	2.6	2.1	2.0	2.0	2.1	2.1	2.5
16	3.5	4.4	13.3	3.2	2.7	2.5	2.1	2.0	2.0	2.1	2.1	2.4
17	3.5	5.0	11.3	3.2	2.7	2.5	2.1	1.9	2.0	2.1	2.0	2.3
18	3.2	4.4	4.7	3.1	2.7	2.7	2.2	1.9	2.0	2.1	2.0	2.3
19	3.1	3.8	4.5	3.2	2.6	2.6	2.1	1.9	2.0	2.1	2.0	2.3
20	3.0	3.5	8.1	3.2	2.6	2.5	2.1	1.9	2.0	2.1	2.0	2.3
21	2.9	3.6	5.2	3.1	2.6	2.4	2.7	2.0	2.0	2.1	2.0	2.3
22	2.8	3.6	4.0	3.1	2.7	2.4	2.1	1.9	2.0	2.0	2.0	2.3
23	3.0	3.5	4.1	3.1	2.7	2.3	2.2	2.0	2.0	2.0	3.6	2.2
24	3.0	3.3	4.5	3.1	2.7	2.3	2.2	1.9	1.9	2.0	3.4	4.4
25	3.0	3.2	3.7	4.2	2.6	2.3	2.1	2.0	1.9	2.0	2.4	4.3
26	3.0	3.2	3.6	3.5	2.6	3.7	2.5	2.0	2.0	2.0	3.6	3.0
27	2.8	15.8	3.5	3.2	2.6	3.0	6.5	3.9	2.0	2.0	3.7	2.6
28	2.8	11.2	3.4	3.2	2.6	2.8	5.3	2.4	2.0	2.0	2.9	2.6
29	2.8	-----	4.2	3.1	2.5	2.8	3.5	2.1	1.9	2.1	2.5	2.6
30	2.8	-----	3.7	3.1	2.5	2.5	2.8	3.5	1.9	2.1	2.4	2.5
31	3.1	-----	5.0	-----	2.7	-----	2.5	4.1	-----	2.2	-----	2.5

¹ Data for January and February from U. S. Geological Survey Records.

DAILY RIVER STAGES.

*Susquehanna River system—Susquehanna River, Towanda, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.0	2.0	10.2	15.0								
2	8.0	2.0	11.0	14.0								
3	5.5	3.0	10.0	12.5								
4	4.0	3.8	8.0	11.0								
5	2.5	3.8	6.0	8.0								
6	2.5	3.5	4.4	6.5								
7	Frozen.	9.0	4.4	6.2								
8		9.2	6.3	6.1								
9		6.0	6.0	5.5								
10		5.0	5.0	5.9								
11		4.0	4.4	6.8								
12		3.0	3.8	7.1								
13		2.5	3.2	8.0								
14		2.3	3.0	9.0								
15		2.2	2.8	9.0								
16		2.8	2.7	8.5								
17		3.0	2.6	7.3								
18		3.0	2.5	7.0								
19		3.0	2.4	6.2								
20		3.0	3.0	5.3								
21		3.0	4.0	4.5								
22		3.0	4.8	4.0								
23		3.0	4.0	3.8								
24		3.0	3.8	3.5								
25		3.0	3.3	3.1								
26		3.0	3.1	2.8								
27		3.0	3.8	2.6								
28		4.0	4.5	2.5								
29		5.0	5.1	2.3								
30			11.0	2.0								
31			15.0									

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	2.0	2.1	3.9			0.6	3.5	0.6	0.6	0.3	2.9
2		2.0	1.8	3.6			1.0	2.9	0.6	0.6	0.3	2.6
3		2.0	1.5	3.3			1.3	2.4	0.7	0.6	1.1	2.3
4		2.0	3.3	3.0			1.0	1.9	0.8	0.5	2.6	2.0
5		2.0	5.0	2.8			0.8	1.8	0.8	0.4	2.2	2.2
6		2.0	5.0	2.8			0.7	1.7	0.7	0.4	1.6	4.4
7		2.0	5.0	3.3			0.6	1.6	0.6	0.3	1.3	5.3
8		2.0	4.9	3.6			0.5	1.4	0.5	0.3	1.1	4.3
9		2.3	4.5	3.6			0.5	1.1	0.4	0.3	1.0	3.6
10		2.5	4.8	7.5			0.4	1.0	0.4	0.3	1.3	3.1
11		2.7	8.0	7.5		4.2	0.4	0.9	0.4	0.3	1.5	3.1
12		2.5	7.3	7.0		3.5	0.4	0.9	0.4	0.3	1.6	3.0
13		2.5	6.9	5.0		3.0	0.4	0.8	0.4	0.3	1.5	3.2
14		2.3	6.0	4.2		2.5	0.4	1.0	0.3	0.3	1.4	3.2
15		2.1	4.8	3.8		2.1	0.4	0.9	0.3	0.3	1.4	3.4
16		2.0	3.7	4.3		1.9	0.6	0.8	0.3	0.3	1.3	5.0
17		2.0	3.2	5.4		1.8	0.6	0.8	0.3	0.3	1.3	6.7
18		2.0	2.8	4.7		1.6	0.5	0.8	0.3	0.3	2.0	5.3
19		2.0	2.7	4.3		1.4	0.5	0.7	0.3	0.3	2.0	4.2
20		2.0	3.0	3.9		1.2	0.5	0.7	0.3	0.3	2.0	3.5
21		2.0	8.8	3.5		1.1	0.5	0.6	0.3	0.3	1.8	2.8
22		2.0	8.6	3.1		1.0	0.4	0.5	0.3	0.3	1.6	2.7
23		2.7	7.5	2.8		0.9	0.5	0.5	0.4	0.3	1.6	2.7
24		4.0	7.6	2.6		0.9	0.5	0.4	0.5	0.3	1.6	2.2
25		3.6	11.3	2.4		0.8	0.5	0.9	1.4	0.3	1.6	2.0
26		2.7	8.5	2.3		0.8	3.2	1.2	1.7	0.3	1.5	2.0
27		2.5	6.7	2.4		0.7	3.3	1.0	1.4	0.3	3.0	2.2
28		2.3	5.3	2.5		0.7	2.6	1.0	1.1	0.3	5.0	4.5
29			4.6	2.3		0.6	3.5	0.9	0.9	0.3	4.5	4.5
30			4.2	2.1			4.4	0.8	0.7	0.3	3.5	4.0
31			4.1				4.6	0.7		0.3		2.7

DAILY RIVER STAGES.

407

Susquehanna River system—Susquehanna River, Towanda, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.0	3.0	3.2	4.1								
2	4.0	2.5	3.0	3.6								
3	4.0	2.3	2.8	3.3								
4	4.0	Frozen.	2.7	3.1								
5	4.0		2.6	2.8								
6	4.0		2.5	2.6								
7	4.0		2.3	2.4								
8	4.0		2.6	2.3								
9	4.0		3.6	2.2								
10	4.0		4.6	2.1								
11	4.0		5.8	2.0								
12	4.0	6.0	7.7	1.9								
13	5.0	9.5	10.0	1.8								
14	7.5	7.8	10.6	1.8								
15	7.0	6.8	9.6	1.7								
16	6.6	5.2	7.9	1.6								
17	5.7	3.8	6.0	1.6								
18	5.6	2.6	5.1	1.6								
19	4.0	3.2	4.6	1.5								
20	3.5	3.8	6.0	1.4								
21	4.8	5.3	6.6	1.4								
22	5.7	8.0	6.0	1.5								
23	5.5	6.8	7.8	1.5								
24	8.2	5.6	8.5	2.8								
25	6.4	4.8	6.4	12.0								
26	5.4	4.3	5.0	12.0								
27	4.4	3.8	4.3	10.0								
28	4.0	3.4	3.9	7.0								
29	3.4		3.7	5.8								
30	2.8		4.8	4.8								
31	2.5		4.8									

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	4.1	3.6								
2			4.2	3.5								
3			3.6	3.2								
4			4.4	2.8								
5			8.0	2.8								
6			10.5	3.2								
7			9.5	3.5								
8			7.8	6.0								
9			6.2	8.5								
10			5.0	7.6								
11			3.8	6.0								
12			4.0	5.3								
13			7.2	7.9								
14			8.0	8.3								
15			6.2	8.2								
16			4.8	7.8								
17			4.1	7.3								
18			3.5	6.3								
19			3.4	5.4								
20			5.0	5.0								
21			5.1	4.7								
22			4.5	4.5								
23		8.0	4.2	4.0								
24		5.5	6.6	3.7								
25		4.2	6.0	3.3								
26		3.7	4.7	3.3								
27		3.5	4.2	3.2								
28		4.0	3.9	2.9								
29			4.0	2.7								
30			4.3	2.5								
31			3.8									

DAILY RIVER STAGES.

*Susquehanna River system—Susquehanna River, Wilkesbarre, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.0	4.5	12.0	20.0	1.5	1.0	1.0	1.0	-3.0	-3.0	-----	-----
2	14.5	5.0	13.0	18.0	1.4	1.0	1.0	0.5	-3.0	-3.0	-----	-----
3	14.0	6.0	13.0	19.0	1.3	1.8	1.0	0.0	-3.0	-3.0	-----	-----
4	14.0	6.5	12.0	19.0	1.2	1.5	1.0	1.0	-3.0	-3.0	-----	-----
5	14.0	6.5	10.0	12.0	1.0	1.0	2.0	1.5	-3.0	-3.0	-----	-----
6	13.0	12.0	8.0	8.5	1.0	1.0	3.0	1.5	-2.0	-3.0	-----	-----
7	12.0	15.0	6.0	8.0	0.5	1.0	3.0	1.0	-2.0	-3.0	-----	-----
8	10.0	14.0	6.0	7.5	0.5	1.5	2.5	1.0	-2.0	-3.0	-----	-----
9	9.0	13.0	6.0	7.0	0.0	1.5	2.0	1.0	-2.5	-3.0	-----	-----
10	8.0	12.0	6.0	7.0	0.0	1.5	1.5	0.5	-2.5	-3.0	-----	-----
11	8.0	10.0	6.0	6.5	0.0	1.5	1.0	0.5	-2.5	-3.0	-----	-----
12	7.0	8.0	8.0	6.0	0.0	1.5	0.5	0.0	-2.5	-3.0	-----	-----
13	6.0	7.0	8.0	6.0	-0.5	1.5	0.0	0.0	-2.5	10.0	-----	-----
14	5.0	6.0	8.0	6.0	-0.5	2.0	-0.5	0.0	-2.5	12.0	-----	-----
15	5.0	7.0	8.0	6.0	-0.5	2.0	-1.0	0.0	-2.5	15.0	-----	-----
16	4.5	6.0	8.0	6.5	-0.5	1.5	-1.0	0.0	-3.0	14.0	-----	-----
17	4.5	7.0	8.0	6.5	-0.5	1.5	-1.0	0.0	-3.0	12.0	-----	-----
18	4.5	6.0	9.0	6.5	-1.0	2.0	-1.0	0.0	-3.0	11.0	-----	-----
19	4.5	6.0	10.0	6.5	-1.0	1.5	-1.0	0.0	-2.5	10.0	-----	-----
20	4.5	6.0	12.0	6.2	-1.0	1.5	-1.5	0.0	-1.0	9.0	-----	-----
21	4.5	6.0	13.0	6.0	-1.0	1.0	-1.5	0.0	-1.0	7.0	-----	-----
22	4.5	8.0	12.0	5.5	0.0	1.0	-1.5	-0.5	-1.5	6.0	-----	-----
23	4.5	8.0	11.0	5.5	0.0	0.0	-1.5	-0.5	-1.5	6.0	-----	-----
24	7.0	8.0	10.0	5.0	-0.5	0.0	-1.5	-0.5	-2.0	6.0	-----	-----
25	7.0	8.0	9.0	4.0	-1.0	1.0	0.0	-1.0	-2.0	6.0	-----	-----
26	6.5	8.0	8.0	3.0	-1.0	1.5	0.0	-1.0	-2.5	5.0	-----	-----
27	6.0	8.0	8.0	3.0	-1.5	1.5	0.0	-1.0	-2.5	4.0	-----	-----
28	5.5	8.0	8.0	2.7	-2.0	1.0	0.0	-1.0	-3.0	3.0	-----	-----
29	5.0	12.0	10.0	2.0	-1.5	1.0	1.5	-2.0	-3.0	2.0	-----	-----
30	4.5	-----	12.0	1.7	-1.5	1.0	2.0	-3.0	-3.0	1.0	-----	-----
31	4.0	-----	15.5	-----	0.0	-----	1.0	-3.0	-----	1.0	-----	-----

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	2.0	3.0	-----	-----	-1.0	4.0	0.0	0.0	0.0	4.0
2	-----	-----	2.0	3.0	-----	-----	-1.0	3.0	0.0	0.0	0.0	3.0
3	-----	-----	1.0	3.0	-----	-----	-1.0	3.0	0.0	0.0	0.0	3.0
4	-----	-----	2.0	3.0	-----	-----	-1.0	2.0	-1.0	0.0	1.0	3.0
5	-----	-----	3.0	3.0	-----	-----	-1.0	1.0	-1.0	0.0	2.0	3.0
6	-----	-----	4.0	3.0	-----	-----	-1.0	1.0	-1.0	0.0	2.0	3.0
7	-----	-----	5.0	3.0	-----	-----	-1.0	1.0	-1.0	0.0	2.0	7.0
8	-----	-----	6.0	3.0	-----	-----	-1.0	1.0	-1.0	0.0	2.0	7.0
9	-----	-----	6.0	4.0	-----	-----	-1.0	1.0	-1.0	0.0	2.0	5.0
10	-----	-----	5.0	4.0	-----	-----	-1.0	0.0	-1.0	0.0	1.0	4.0
11	-----	-----	4.0	4.0	-----	-----	-1.0	0.0	-1.0	0.0	1.0	3.0
12	-----	-----	9.0	4.0	-----	-----	-1.0	0.0	-1.0	0.0	2.0	3.0
13	-----	-----	8.0	5.0	-----	-----	-1.0	0.0	-1.0	0.0	2.0	3.0
14	-----	-----	7.0	5.0	-----	-----	-1.0	0.0	-1.0	0.0	2.0	4.0
15	-----	-----	6.0	5.0	-----	-----	-1.0	-1.0	-1.0	0.0	2.0	6.0
16	-----	-----	5.0	6.0	-----	-----	-1.0	-1.0	-1.0	0.0	2.0	7.0
17	-----	-----	4.0	6.0	-----	-----	-1.0	-1.0	-1.0	0.0	2.0	9.0
18	-----	-----	5.0	6.0	-----	-----	-1.0	-1.0	-1.0	0.0	2.0	9.0
19	-----	-----	6.0	6.0	-----	-----	-1.0	-1.0	-1.0	0.0	2.0	8.0
20	-----	-----	6.0	6.0	-----	-----	-1.0	-1.0	-1.0	0.0	2.0	6.0
21	-----	-----	8.0	6.0	-----	-----	-1.0	-1.0	-1.0	0.0	2.0	5.0
22	-----	-----	10.0	6.0	-----	-----	-1.0	0.0	-1.0	0.0	2.0	5.0
23	-----	-----	9.0	5.0	-----	-----	-1.0	0.0	-1.0	0.0	2.0	4.0
24	-----	-----	9.0	5.0	-----	-----	-1.0	0.0	-1.0	0.0	2.0	3.0
25	-----	-----	10.0	5.0	-----	-----	-1.0	0.0	-1.0	0.0	2.0	3.0
26	-----	-----	13.0	4.0	-----	-----	-1.0	0.0	-1.0	0.0	2.0	3.0
27	-----	-----	11.0	4.0	-----	-----	-1.0	0.0	0.0	0.0	2.0	3.0
28	-----	-----	8.0	3.0	-----	-----	0.0	0.0	1.0	0.0	5.0	3.0
29	-----	-----	6.0	3.0	-----	-----	2.0	0.0	1.0	0.0	6.0	3.0
30	-----	-----	5.0	3.0	-----	-----	4.0	0.0	0.0	0.0	5.0	3.0
31	-----	-----	4.0	-----	-----	-----	5.0	0.0	-----	0.0	-----	3.0

DAILY RIVER STAGES.

409

Susquehanna River system—Susquehanna River, Wilkesbarre, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.0	9.0	4.0	6.0	6.0	3.0	0.0	0.0	6.0	0.0	4.3	3.0
2	2.0	9.0	4.0	5.2	6.0	3.0	0.0	0.0	4.0	0.0	4.0	3.0
3	2.0	9.0	3.8	5.0	6.0	2.8	0.0	0.0	2.0	0.0	3.7	3.0
4	2.0	9.0	3.4	4.6	6.0	2.5	0.0	1.0	2.0	0.0	3.4	3.0
5	2.0	9.0	3.3	4.0	6.0	2.2	0.0	1.5	2.0	0.0	3.0	3.0
6	2.0	9.0	3.2	3.5	5.5	2.0	0.0	2.0	2.0	0.0	3.0	3.0
7	2.0	9.0	3.1	3.0	7.0	1.8	0.0	2.5	2.0	1.0	3.0	3.8
8	2.0	9.0	3.0	3.0	6.0	1.2	0.0	2.5	2.5	2.4	3.0	3.9
9	2.0	9.0	3.2	2.5	5.5	0.8	-0.1	2.5	4.2	3.2	3.0	3.4
10	2.0	9.0	4.2	2.3	4.5	0.4	-0.1	2.5	4.2	4.0	3.0	3.2
11	2.0	9.0	5.8	2.0	3.8	0.0	-0.1	2.3	4.0	3.0	7.0	3.2
12	2.0	9.0	8.0	2.0	3.0	0.0	-0.2	2.3	3.8	2.8	12.0	3.2
13	2.0	11.0	11.0	2.0	3.5	0.0	-0.2	2.3	3.4	2.4	11.5	3.2
14	4.0	10.0	11.6	2.0	4.0	1.0	-0.2	2.3	3.0	2.0	8.6	3.2
15	16.8	8.2	12.0	1.5	4.0	2.0	-0.3	2.3	2.5	3.2	8.0	3.2
16	17.9	6.0	10.2	1.3	4.0	2.0	-0.3	2.4	2.0	4.4	7.2	3.2
17	8.2	4.9	7.4	1.2	3.5	1.0	-0.3	2.5	1.8	5.4	5.6	3.2
18	6.0	4.0	7.4	1.0	4.0	0.5	-0.4	2.6	1.6	6.0	5.2	3.2
19	4.4	6.2	5.3	1.5	4.2	0.0	-0.4	2.7	1.3	4.0	5.0	3.2
20	4.0	7.0	5.0	2.0	4.4	0.0	-0.4	3.0	1.0	3.8	5.5	3.2
21	4.0	8.0	6.2	2.0	7.0	0.0	-0.4	3.5	0.7	3.0	6.0	3.2
22	6.9	9.0	7.0	1.0	8.2	0.0	-0.4	4.0	0.5	2.4	6.2	4.0
23	8.0	8.5	9.2	1.0	7.0	0.5	-0.4	4.0	0.3	4.3	6.0	5.5
24	10.2	7.0	11.5	4.0	4.0	1.0	-0.4	4.0	0.2	5.5	5.4	10.5
25	9.2	6.5	9.2	11.0	4.5	0.8	-0.4	4.8	0.1	6.0	5.0	9.0
26	7.0	5.5	7.0	13.5	5.0	0.4	-0.4	5.6	0.0	6.0	4.4	7.5
27	5.8	4.5	6.0	13.0	5.5	0.0	-0.4	6.0	0.0	6.2	4.0	5.4
28	4.8	4.0	5.0	10.0	4.0	0.0	-0.4	6.0	0.0	6.1	3.1	4.5
29	4.2	-----	5.0	8.2	4.0	0.0	-0.4	5.0	0.0	5.7	3.0	4.5
30	4.0	-----	6.0	6.3	3.5	0.0	-0.4	5.0	0.0	5.1	3.0	4.5
31	8.2	-----	6.3	-----	3.2	-----	0.0	4.0	-----	4.5	-----	4.5

1899.

1	4.5	7.0	12.5	4.7	2.2	0.0	0.6	0.0	0.0	-1.0	-2.0	0.0
2	4.5	7.0	13.4	4.7	2.0	0.0	0.4	0.0	0.0	-1.0	0.0	0.0
3	6.0	7.0	12.0	4.5	1.7	0.0	0.2	0.0	-0.3	-1.6	2.0	0.0
4	7.2	7.0	9.5	4.3	1.4	0.0	0.0	1.0	-0.5	-1.8	4.0	0.0
5	8.0	7.0	10.6	4.0	1.0	0.0	0.0	1.0	-0.6	-2.0	5.0	0.0
6	12.5	7.0	14.0	4.0	0.7	0.0	1.0	1.0	-0.7	-2.0	5.0	0.0
7	21.0	7.0	13.2	4.0	0.4	0.0	1.0	1.5	-0.8	-2.0	4.0	0.0
8	19.0	7.0	12.8	6.0	0.3	0.0	0.7	1.0	-0.9	-2.0	1.0	0.0
9	19.0	7.0	11.4	10.0	0.1	0.0	0.7	1.5	-1.0	-2.0	1.0	0.0
10	16.2	7.0	10.0	10.2	0.0	0.0	0.5	0.0	-1.1	-2.0	1.0	0.0
11	15.2	7.0	8.5	8.5	0.0	0.0	0.5	0.0	-1.2	-2.0	1.0	0.0
12	14.8	7.0	7.4	7.2	0.0	0.0	0.3	0.0	-1.3	-2.0	1.0	0.0
13	14.0	7.0	5.2	6.5	0.0	0.0	0.0	0.0	-1.4	-2.0	3.0	1.0
14	14.0	7.0	9.4	10.0	0.0	0.0	0.0	-0.2	-1.5	-2.0	3.0	2.0
15	14.0	6.7	11.2	10.2	0.0	0.0	0.0	-0.5	-1.6	-2.0	3.0	3.0
16	16.0	6.4	7.2	10.0	0.0	0.0	0.0	-0.8	-1.7	-2.0	3.0	4.1
17	19.5	5.8	7.0	9.5	0.0	0.0	0.0	-1.0	-1.8	-2.0	3.0	4.3
18	17.5	5.6	7.0	8.4	0.0	0.0	0.5	-1.2	-1.9	-2.0	2.5	4.0
19	16.0	5.4	7.0	8.4	0.0	0.0	0.5	-1.4	-2.0	-2.0	2.0	3.0
20	14.0	5.2	7.0	8.2	0.6	0.0	0.5	-1.6	-2.0	-2.0	2.0	3.0
21	13.2	5.2	6.2	8.0	1.0	0.0	0.0	-1.8	-2.0	-2.0	1.0	3.0
22	11.0	7.0	6.2	7.5	1.5	0.0	0.0	-2.0	-2.0	-2.0	0.0	3.0
23	8.2	9.5	6.8	7.1	1.5	0.0	0.0	-2.0	-2.0	-2.0	0.0	3.0
24	7.0	12.0	7.4	6.5	1.5	0.0	0.0	-2.0	-2.0	-2.0	0.0	3.0
25	7.0	11.2	7.6	6.3	1.5	0.0	0.0	-2.0	-1.5	-2.0	0.0	3.0
26	7.0	11.0	7.9	5.6	1.0	0.0	0.0	-2.0	-1.0	-2.0	0.0	3.0
27	7.0	10.8	8.0	4.5	0.5	0.0	0.0	-2.0	-1.0	-2.0	0.0	5.4
28	7.0	11.5	6.5	3.6	0.0	0.0	0.0	-1.5	-1.0	-2.0	0.0	5.0
29	7.0	-----	5.5	3.0	0.0	0.5	0.0	1.0	-1.0	-2.0	0.0	4.3
30	7.0	-----	5.4	2.5	0.0	1.8	0.0	0.5	-1.0	-2.0	0.0	4.0
31	7.0	-----	4.7	-----	0.0	-----	0.0	0.0	-----	-2.0	-----	4.0

DAILY RIVER STAGES.

*Susquehanna River system—Susquehanna River, East Bloomsburg, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.0	3.0	10.0	17.0	3.5	1.5	2.0	2.5	0.0	1.0	1.0	4.0
2	11.0	3.0	13.0	17.0	3.0	1.5	2.0	2.5	0.0	1.0	1.0	3.5
3	8.0	3.0	12.0	15.0	3.0	1.5	1.5	2.5	0.0	1.0	1.0	3.5
4	7.0	3.0	10.0	14.0	3.0	1.5	1.5	2.0	0.0	1.0	1.0	3.5
5	7.0	3.0	8.5	11.0	2.5	1.5	1.5	2.0	0.0	1.0	3.0	3.0
6	4.0	3.5	7.0	10.0	2.5	1.5	1.0	2.0	0.0	1.0	7.0	3.0
7	3.0	12.5	6.0	7.5	2.0	1.5	1.0	1.5	0.0	1.0	6.5	2.5
8	1.0	12.0	7.5	7.5	2.0	1.5	1.0	1.5	0.0	1.0	6.5	2.5
9	1.0	10.0	7.5	7.0	2.0	1.5	1.0	1.5	0.0	1.0	5.0	2.5
10	1.0	7.5	7.5	7.0	2.0	1.5	2.0	1.5	0.0	1.0	5.0	2.5
11	2.0	5.5	6.0	7.0	2.0	4.0	1.5	1.5	0.0	1.0	5.0	3.0
12	2.5	5.5	6.0	8.5	2.0	4.0	1.5	1.5	0.0	1.0	5.0	5.0
13	4.0	5.0	5.5	9.0	2.0	4.0	1.5	1.5	0.0	2.5	4.5	4.5
14	5.0	5.0	5.5	10.0	1.5	3.5	1.5	1.5	0.0	4.0	4.0	4.5
15	5.0	5.0	5.0	10.5	1.5	3.0	1.5	1.5	0.0	11.0	4.0	4.5
16	5.0	4.5	5.0	10.5	1.0	2.5	1.5	1.5	0.0	12.0	3.5	4.0
17	5.0	4.5	4.0	10.0	1.0	2.0	1.0	1.5	0.0	8.0	3.5	3.5
18	5.0	4.0	4.0	9.5	1.0	2.0	1.0	1.0	0.0	5.5	3.5	3.0
19	4.0	3.5	4.0	8.0	1.0	3.5	1.0	1.0	0.0	5.0	3.0	3.0
20	4.0	3.0	6.0	7.0	1.0	3.5	1.0	1.0	0.0	4.0	3.0	3.0
21	4.0	5.5	6.5	7.0	1.0	3.0	1.0	1.0	0.0	3.0	3.0	3.0
22	4.0	6.0	7.0	6.5	1.0	2.5	1.0	1.0	0.0	3.0	3.0	3.0
23	4.0	5.5	7.0	5.5	1.0	2.0	1.0	1.0	1.0	2.5	3.0	2.5
24	4.0	5.0	6.5	5.0	1.0	2.0	1.0	1.0	1.0	2.5	3.0	2.5
25	3.5	4.5	5.0	5.0	1.0	2.0	1.0	0.5	1.0	2.0	3.0	2.5
26	3.0	4.0	5.0	4.5	1.0	2.0	1.0	0.5	1.0	2.0	3.0	2.5
27	3.0	4.0	6.5	4.5	1.0	2.0	1.0	0.5	1.0	1.5	3.5	2.5
28	3.0	4.0	7.0	4.0	1.0	2.0	3.0	0.5	1.0	1.5	4.0	2.5
29	3.0	4.0	7.0	4.0	1.0	2.0	2.5	0.0	1.0	1.0	4.0	2.5
30	3.0	-----	9.0	3.5	1.5	2.0	2.5	0.0	1.0	1.0	4.0	2.5
31	3.0	-----	14.0	-----	1.5	-----	2.5	0.0	-----	1.0	-----	2.5

1897.

1	2.5	2.0	2.5	6.0	3.0	4.0	1.0	6.0	0.0	1.5	0.0	5.0
2	2.5	2.0	2.0	5.0	3.0	3.5	1.0	5.5	0.0	1.5	0.5	3.5
3	2.5	2.0	2.0	4.5	4.0	3.0	1.0	5.0	0.0	1.0	1.0	3.0
4	2.5	2.0	3.5	4.5	4.0	3.0	1.0	4.5	0.0	1.0	3.0	3.0
5	2.5	2.0	4.0	4.5	4.5	3.0	1.0	4.0	0.0	0.5	3.0	4.0
6	4.0	2.0	5.0	4.5	6.0	4.0	0.5	3.5	0.0	0.5	3.0	5.0
7	3.0	2.0	7.0	4.0	6.0	3.5	0.5	3.0	0.0	0.5	3.0	6.5
8	3.0	3.0	7.0	5.0	5.5	3.5	0.5	2.0	0.0	0.5	3.0	5.0
9	2.5	3.0	6.0	5.0	5.0	3.0	0.5	1.5	0.0	0.0	3.0	5.5
10	2.5	3.0	6.0	7.0	4.5	3.0	0.5	1.0	0.0	0.0	2.5	6.0
11	2.5	2.5	7.0	9.0	4.0	4.5	0.5	1.0	0.0	0.0	2.0	6.0
12	2.5	2.5	9.0	8.0	3.5	5.0	0.5	1.0	0.0	0.0	2.0	5.5
13	2.5	2.5	10.0	8.0	4.5	5.0	0.0	0.5	0.0	0.0	2.0	5.5
14	2.5	2.5	9.0	7.0	6.5	4.0	0.0	0.5	0.0	0.0	2.0	6.0
15	2.0	2.5	7.0	6.5	7.0	4.0	0.0	0.0	0.0	0.0	2.0	6.0
16	2.0	2.5	7.0	6.0	7.0	4.0	0.0	0.0	0.0	0.0	2.0	7.0
17	2.0	2.5	6.0	8.5	6.0	3.5	0.0	0.0	0.0	0.0	2.5	9.0
18	2.0	2.5	5.0	8.0	5.5	3.0	0.0	0.0	0.0	0.0	2.5	8.5
19	2.0	2.5	4.5	7.0	4.5	3.0	0.0	0.0	0.0	0.0	2.5	7.0
20	2.0	2.5	4.5	7.0	4.0	3.0	0.0	0.0	0.0	0.0	2.5	6.0
21	2.0	2.5	5.5	6.0	3.5	3.0	0.0	0.0	0.0	0.0	2.5	5.0
22	2.0	2.5	7.0	5.5	4.0	2.5	0.0	0.0	0.0	0.0	2.0	4.0
23	2.0	4.0	11.0	4.5	4.0	2.0	0.0	0.0	0.0	0.0	2.0	4.0
24	2.0	3.5	9.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	2.0	4.0
25	2.0	3.0	11.0	4.0	4.0	2.0	0.0	0.0	1.0	0.0	2.0	4.0
26	2.0	3.0	12.0	4.0	5.0	2.0	0.0	0.0	2.5	0.0	2.0	3.0
27	2.0	3.0	12.5	4.0	5.0	1.0	3.0	0.0	2.5	0.0	2.0	2.0
28	2.0	2.5	9.5	3.5	4.0	1.0	5.0	0.0	1.5	0.0	2.0	2.0
29	2.0	-----	7.0	3.5	4.0	1.0	5.5	0.0	1.5	0.0	3.0	2.0
30	2.0	-----	6.5	3.0	4.0	1.0	5.5	0.0	1.5	0.0	6.0	2.0
31	2.0	-----	6.0	-----	4.0	-----	5.5	0.0	-----	0.0	-----	2.0

DAILY RIVER STAGES.

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Susquehanna River system—Susquehanna River, East Bloomsburg, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.0	4.0	5.0	6.5	7.0	4.5	0.0	0.0	4.5	0.5	4.0	4.0
2	2.0	4.0	4.5	6.0	6.5	4.5	0.0	0.0	4.5	0.5	3.0	4.0
3	2.0	4.0	4.5	6.0	5.5	4.5	0.0	1.0	4.0	0.5	2.5	4.0
4	2.0	4.0	4.0	5.5	5.0	3.5	0.0	1.5	4.0	0.5	2.5	4.5
5	2.0	4.0	4.0	5.0	5.0	3.0	0.0	1.5	3.5	0.5	2.5	4.5
6	2.0	4.0	4.0	4.5	5.0	3.0	0.0	3.0	3.0	0.5	3.0	4.5
7	2.0	4.0	4.0	4.5	5.0	3.0	0.0	3.5	3.0	0.5	3.0	4.5
8	2.0	4.0	4.0	4.5	5.0	3.0	0.0	3.5	3.0	1.0	3.0	4.5
9	2.0	4.0	4.0	4.0	5.0	2.5	0.0	3.5	3.0	4.0	3.0	4.5
10	2.0	4.0	5.0	4.0	5.0	2.0	0.0	2.0	4.5	4.0	4.5	4.0
11	2.0	4.0	6.0	4.0	5.0	2.0	0.0	1.5	5.0	4.0	5.5	3.0
12	2.0	4.0	8.0	3.5	4.5	2.0	0.0	0.5	6.0	3.5	7.5	2.5
13	3.0	8.5	10.0	3.5	4.0	1.5	0.0	0.5	5.5	3.0	12.0	2.5
14	4.0	10.5	12.0	3.5	4.0	1.0	0.0	0.5	5.0	2.5	12.0	2.5
15	7.0	9.0	11.0	3.0	4.5	1.0	0.0	0.5	5.0	3.5	10.0	2.5
16	8.0	8.0	10.0	3.0	5.0	1.0	0.0	1.0	4.0	7.0	10.0	2.5
17	8.0	7.0	9.0	3.0	5.0	1.0	0.0	1.0	3.5	7.5	9.5	2.5
18	7.0	5.5	7.0	2.5	5.0	0.5	0.0	1.0	3.5	8.0	8.0	2.5
19	6.0	5.5	6.5	2.5	5.0	0.5	0.0	1.0	3.5	8.0	7.0	2.5
20	5.5	6.0	7.5	2.5	5.0	0.5	0.0	1.5	3.0	7.0	8.5	2.5
21	6.5	8.0	8.5	2.5	7.0	0.5	0.0	3.0	3.0	4.5	8.5	2.5
22	7.0	9.0	9.0	2.5	8.0	0.5	0.0	4.0	2.5	6.0	6.0	2.5
23	8.0	10.5	10.0	2.5	6.0	0.0	0.0	4.0	2.0	7.0	6.0	2.5
24	10.0	8.0	12.0	2.5	6.0	0.0	0.0	3.0	2.0	8.5	5.5	9.5
25	10.0	8.0	12.0	8.5	5.5	0.0	0.0	3.0	1.5	8.0	5.5	8.5
26	8.0	7.0	10.0	13.5	6.0	0.0	0.0	3.0	1.0	7.5	5.5	8.5
27	8.0	5.5	9.0	13.0	5.5	0.0	0.0	6.0	0.5	6.0	5.0	6.0
28	6.0	5.0	7.5	10.0	5.5	0.0	0.0	6.0	0.5	5.5	5.0	6.0
29	5.0	-----	7.0	9.0	5.5	0.0	0.0	5.5	0.5	4.0	4.5	5.0
30	4.0	-----	6.5	7.0	5.0	0.0	0.0	4.5	0.5	4.0	4.0	3.5
31	4.0	-----	6.5	-----	5.0	-----	0.0	4.5	-----	4.0	-----	3.5

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1	3.5	4.0	6.5	5.5	3.0	3.0	1.0	0.0	3.0	0.0	0.0	2.0
2	3.5	4.0	6.5	5.5	3.0	3.0	0.5	0.0	2.5	0.0	0.0	1.5
3	3.5	4.0	6.5	5.5	3.0	3.0	0.5	0.0	1.5	0.0	0.0	1.5
4	3.5	4.0	14.0	5.5	3.0	3.0	0.5	0.0	0.5	0.0	5.5	1.5
5	3.5	4.0	14.0	5.5	3.0	3.0	0.5	0.0	0.5	0.0	5.0	1.5
6	8.5	4.0	13.5	5.5	3.0	3.0	0.5	0.0	0.0	0.0	5.0	1.5
7	5.5	4.0	13.0	6.0	3.0	3.0	0.5	0.0	0.0	0.0	4.0	1.5
8	3.5	4.0	13.0	6.0	3.0	3.0	0.5	0.0	0.0	0.0	2.5	1.5
9	3.5	4.0	11.0	7.0	3.0	3.0	0.5	0.0	0.0	0.0	2.5	1.0
10	3.5	4.0	9.0	7.5	3.0	3.0	0.5	0.0	0.0	0.0	2.0	1.0
11	3.5	4.0	7.0	8.0	3.0	3.0	0.5	0.0	0.0	0.0	2.0	1.0
12	3.5	4.0	7.0	10.0	3.0	3.0	0.5	0.0	0.0	0.0	2.0	1.0
13	3.5	4.0	7.0	10.0	3.0	2.5	0.5	0.0	0.0	0.0	2.0	1.0
14	3.5	4.0	10.0	10.5	3.0	2.0	0.5	0.0	0.0	0.0	2.0	5.5
15	3.5	4.0	9.0	10.5	3.0	1.5	0.5	0.0	0.0	0.0	2.0	6.5
16	5.0	4.0	8.0	10.0	3.0	1.5	0.5	0.0	0.0	0.0	2.0	6.5
17	7.0	4.0	7.0	9.5	3.0	1.5	1.5	0.0	0.0	0.0	2.0	6.5
18	7.0	4.0	7.0	9.0	3.0	1.0	1.0	0.0	0.0	0.0	2.0	5.0
19	6.5	4.0	7.0	9.0	3.0	1.0	0.5	0.0	0.0	0.0	2.0	4.0
20	6.5	4.0	7.0	8.5	3.0	1.0	0.5	0.0	0.0	0.0	2.0	4.0
21	5.0	4.0	7.0	7.5	3.0	0.5	0.5	0.0	0.0	0.0	2.0	4.5
22	4.5	4.0	7.0	7.5	3.0	0.5	0.5	0.0	0.0	0.0	2.0	4.5
23	4.0	11.0	6.5	6.5	3.0	0.5	0.5	0.0	0.0	0.0	2.0	4.5
24	4.0	12.0	6.5	5.5	3.0	0.5	0.5	0.0	0.0	0.0	2.0	4.5
25	4.5	7.0	6.5	5.0	3.0	0.5	0.5	0.0	0.0	0.0	2.0	4.5
26	4.0	7.0	6.0	4.5	3.0	0.5	0.5	0.0	0.0	0.0	2.0	6.0
27	4.0	7.0	6.0	4.0	3.0	0.5	0.5	0.0	0.0	0.0	2.0	5.5
28	4.0	7.0	6.0	4.0	3.0	0.5	0.0	0.0	0.0	0.0	2.0	5.0
29	4.0	-----	5.5	3.5	3.0	1.5	0.0	0.0	0.0	0.0	2.0	5.0
30	4.0	-----	5.5	3.0	3.0	1.0	0.0	0.0	0.0	0.0	2.0	5.0
31	4.0	-----	5.5	-----	3.0	-----	0.0	0.0	-----	0.0	-----	5.0

DAILY RIVER STAGES.

*Susquehanna River system—Susquehanna River, Sunbury, Pa.***1897.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1										0.0		
2										0.0		
3										0.0		
4										0.0		
5										0.0		
6										0.0		
7										0.0		
8										0.0		
9										0.0		
10										0.0		
11			2.0							0.0		
12			4.0							0.0		
13			5.0							0.0		
14			3.0							0.0		
15			1.0							0.0		
16			0.0							0.0		
17			0.0							0.0		
18			0.0							0.0		
19			0.0							0.0		
20			2.0							0.0		
21			4.0							0.0		
22			6.0							0.0		
23			6.0							0.0		
24			6.0							0.0		
25			7.0							0.0		
26			7.4							0.0		
27			6.0							0.0		
28			4.0							0.0		
29			1.0							0.0		
30			0.0							0.0		
31			0.0							0.0		

1898.

1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	2.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	3.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	2.0	0.0	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0

DAILY RIVER STAGES.

413

*Susquehanna River system—Susquehanna River, Selinsgrove, Pa.***1898.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		2.3	3.2	6.2	4.3	2.8						
2		2.2	3.0	5.2	3.8	2.5						
3		2.2	2.8	4.4	3.5	2.3						
4		2.1	2.6	3.8	3.1	2.0						
5		2.0	2.5	3.5	3.0	1.7						
6		1.8	2.4	3.2	3.2	1.5						
7		2.3	2.2	3.0	4.0	1.4						
8		2.4	2.2	2.6	4.1	1.3						
9		2.2	2.2	2.4	4.0	1.1						
10		2.0	2.6	2.2	3.8	1.0						
11		2.2	3.6	2.2	3.6	0.9						
12		2.4	4.8	2.1	3.4	0.8						
13		5.6	6.7	2.0	2.9	0.9						
14		7.6	8.2	1.8	2.8	1.5						
15		6.9	8.5	1.9	2.5	2.1						
16		6.0	8.6	2.2	2.7	1.6						
17		5.0	6.5	2.3	2.8	1.5						
18		4.0	5.4	2.1	3.3	1.2						
19		3.4	4.7	2.0	3.0	1.1						
20		3.0	4.8	1.9	3.2	1.0						
21		3.9	7.1	1.8	3.8	0.9						
22		5.6	7.4	1.7	4.5	1.1						
23		6.5	9.0	1.6	5.2	1.0						
24		5.9	13.0	1.8	4.7	1.0						
25		5.0	11.4	3.5	4.5	0.9						
26		4.5	8.0	8.5	4.7	0.8						
27		4.0	6.4	8.8	4.5	0.7						
28		3.6	5.4	7.6	4.1	0.5						
29			4.7	6.2	3.8	0.5						
30			5.1	5.2	3.5	0.5						
31			6.8		3.1							

1899.

1		1.3	5.9	5.5								
2		1.7	5.9	4.6								
3		1.8	5.4	4.1								
4		1.9	5.6	3.6								
5		1.8	6.8	3.4								
6		1.6	10.5	3.1								
7		1.7	9.9	3.0								
8		1.8	8.4	3.9								
9		1.6	7.0	6.2								
10		1.5	5.5	7.4								
11		1.3	4.5	6.6								
12		1.2	4.2	5.7								
13		2.6	5.0	5.4								
14		3.4	6.7	6.1								
15		2.8	6.9	7.0								
16		3.2	6.0	6.8								
17		3.0	5.4	6.5								
18		2.8	4.7	5.9								
19		2.9	4.7	5.3								
20		2.7	6.0	4.7								
21		3.0	7.6	4.2								
22		3.7	6.0	4.0								
23		5.4	5.5	3.8								
24		4.8	5.6	3.5								
25		6.0	6.0	3.2								
26		5.2	5.7	3.0								
27		5.2	5.1	2.8								
28		6.0	4.5	2.8								
29			4.7	2.6								
30			5.3	2.4								
31			5.5									

DAILY RIVER STAGES.

*Susquehanna River system—Susquehanna River, Duncannon, Pa.***1897.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1												
2												
3												
4					4.4							
5					4.9							
6			4.0		4.5							
7			5.0		4.3							
8			5.5		3.5							
9			4.8									
10			4.0									
11			4.0	6.9								
12			4.8	6.2								
13			5.6	5.1								
14			5.5	4.1								
15			4.3	3.2								
16			3.5		5.0							
17					4.5							4.8
18				4.5	3.5							4.1
19				4.0								4.0
20				3.8								3.6
21			4.0									
22			5.5									
23			6.7									
24	5.0		7.5									
25	4.6		7.2									
26	3.6		8.0									
27			8.0									
28			6.5									
29			4.0									
30												
31												

1898.

1				7.0								
2				4.0								
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13			4.5									
14			6.3									
15	4.6		6.6									
16	5.2		6.0									
17	5.2		4.2									
18	4.6		3.5									
19	3.8		4.5									
20			5.5									
21			7.8									
22	4.5		11.2									
23	7.0		10.8									
24	6.0		7.5									
25	5.0		5.7	5.2								
26	4.0		4.7	7.0								
27	3.5		3.0	6.2								
28				5.0								
29				4.0								
30			6.2									
31			7.0									

DAILY RIVER STAGES.

415

Susquehanna River system—Susquehanna River, Duncannon, Pa.—Continued.

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			5.5									
2			5.6									
3			4.8									
4			4.8									
5			5.5									
6			9.0									
7	4.5		8.9									
8	3.5		7.6	4.0								
9			6.3	5.1								
10			5.8	5.0								
11			3.8	4.1								
12			3.0	4.0								
13			4.0	4.0								
14			5.0	4.1								
15			5.6	5.0								
16			5.2	5.0								
17			4.5	5.0								
18			4.0	4.0								
19			4.7	4.0								
20			5.7	3.0								
21			5.4									
22			4.8									
23		6.5	4.5									
24		4.0	4.6									
25			4.6									
26			3.7									
27		5.0	3.7									
28		5.8	4.5									
29			5.0									
30			5.5									
31			4.5									

DAILY RIVER STAGES.

*Susquehanna River system—Susquehanna River, Harrisburg, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		4.5	7.2	14.6	3.0	1.5	2.7	4.7	0.3	5.4	2.1	3.9
2		3.8	9.2	14.6	3.0	1.5	2.4	4.3	0.3	4.2	1.9	3.9
3		3.6	9.8	13.8	2.8	1.8	2.1	3.8	0.3	4.0	1.8	3.8
4		3.6	8.4	12.3	2.8	1.8	1.8	3.8	0.3	3.2	1.8	3.3
5		3.5	7.2	10.5	2.7	1.7	1.8	3.7	0.2	2.7	1.8	3.0
6		4.0	5.5	8.8	2.5	1.7	1.7	3.6	0.2	2.1	7.2	2.8
7		11.5	5.0	7.2	2.4	1.7	2.2	2.5	0.2	1.8	10.1	2.7
8		12.5	4.8	6.5	2.2	1.6	2.0	2.3	0.2	1.7	7.8	2.5
9		10.3	4.5	6.2	2.1	1.4	1.9	2.3	0.2	1.5	6.5	2.5
10		8.5	4.8	5.8	2.0	1.8	2.3	2.2	0.2	1.5	5.7	2.7
11		6.8	5.1	5.5	2.0	2.5	2.8	2.2	0.2	1.5	4.8	3.4
12		5.3	4.7	5.5	1.9	2.6	2.8	2.0	0.2	1.5	4.4	3.8
13		4.9	4.0	6.0	1.8	3.4	2.5	1.8	0.2	1.9	4.2	4.0
14		4.2	3.5	6.4	1.7	3.2	2.2	1.7	0.3	7.3	4.0	4.2
15		3.8	2.7	8.0	1.7	2.9	2.0	1.7	0.3	7.0	3.8	3.8
16		3.8	2.7	8.4	1.8	2.6	1.8	1.6	0.6	9.5	3.7	3.7
17		3.8	2.3	8.2	1.6	2.6	1.7	1.6	0.5	7.7	3.5	3.4
18		3.6	2.5	7.3	1.5	2.8	1.6	1.6	0.5	5.6	3.3	3.1
19		2.9	3.2	6.8	1.5	2.7	1.7	1.3	0.6	4.8	3.2	2.9
20		3.0	4.0	6.3	1.5	3.0	1.7	1.2	0.6	4.1	3.0	2.6
21		2.3	6.0	5.8	1.5	3.2	1.9	1.0	0.7	3.6	2.8	2.3
22		3.7	5.8	5.2	1.4	3.0	1.7	0.8	0.8	3.4	2.7	2.0
23		5.4	5.8	4.8	1.4	2.4	1.6	0.8	1.2	3.2	2.6	2.0
24		5.4	6.2	4.6	1.4	2.3	1.7	0.8	1.2	3.0	2.5	1.5
25		3.4	5.6	4.3	1.3	2.2	1.7	0.8	0.9	3.0	2.5	1.5
26		3.5	5.5	4.1	1.2	2.7	1.8	0.8	0.8	3.0	2.3	1.5
27		3.7	5.2	4.0	1.2	4.8	1.9	0.8	0.6	2.8	2.3	1.5
28		3.2	6.1	3.6	1.2	4.0	2.5	0.7	0.5	2.7	2.4	1.5
29		3.2	6.5	3.4	1.5	3.5	2.5	0.6	0.4	2.5	2.7	1.3
30			9.2	3.2	1.5	3.1	3.8	0.5	0.8	2.4	3.5	1.6
31			12.5		1.5		4.3	0.3		2.2		1.8

1897.

1	1.8	3.3	4.2	5.0	3.1	2.9	1.4	4.0	1.2	1.8	0.7	5.0
2	2.0	3.2	3.7	4.7	3.1	2.8	1.3	4.3	1.1	1.5	1.2	4.5
3	2.0	3.2	3.2	4.3	5.5	2.7	1.2	3.8	1.0	1.3	3.1	4.0
4	2.1	3.2	3.8	4.3	6.5	2.6	1.2	3.2	1.0	1.2	4.1	3.8
5	2.5	3.1	4.9	4.0	7.5	2.7	1.2	2.8	1.0	1.1	3.5	3.3
6	3.0	3.0	5.9	3.8	7.1	3.0	1.2	2.7	0.9	1.0	3.1	4.8
7	3.7	4.2	7.7	3.8	7.0	2.7	1.6	2.4	0.8	1.0	3.0	5.2
8	3.7	7.5	8.6	3.8	6.3	2.5	1.6	2.7	0.8	0.9	2.8	5.1
9	3.7	6.6	8.0	3.8	5.5	2.7	1.2	2.5	0.8	0.8	2.5	5.4
10	3.3	5.4	6.9	5.9	4.8	2.7	1.2	2.1	0.8	0.7	2.4	4.9
11	3.1	4.8	6.5	9.0	4.5	2.7	1.2	2.1	0.8	0.7	2.7	4.3
12	2.8	4.5	7.2	9.5	4.0	2.7	1.1	2.0	0.7	0.6	2.7	4.2
13	2.4	3.9	8.7	8.0	4.0	3.0	1.0	1.8	0.7	0.8	2.5	4.2
14	2.0	3.8	8.4	6.8	6.0	3.5	1.1	1.8	0.7	0.8	2.5	4.3
15	2.0	3.8	7.8	6.0	7.8	3.2	1.0	1.6	0.5	0.8	2.5	4.6
16	2.0	3.5	7.0	6.0	7.9	2.9	1.0	1.6	0.6	0.8	2.5	6.6
17	2.0	3.5	6.9	6.6	7.3	2.7	1.2	1.5	0.7	0.7	2.5	7.7
18	2.2	3.3	5.5	7.0	6.5	2.5	1.2	1.5	0.8	0.7	2.7	8.2
19	2.3	3.6	5.0	6.6	5.8	2.2	1.1	1.4	0.8	0.6	2.9	7.3
20	2.0	4.1	5.3	6.0	5.0	2.2	1.1	1.4	0.7	0.6	3.4	6.3
21	1.8	4.0	7.4	5.5	4.2	2.2	1.5	1.3	0.6	0.5	3.2	5.6
22	1.8	4.2	8.2	4.9	4.0	2.2	1.5	1.2	0.6	0.6	3.2	5.0
23	1.9	5.9	9.8	4.5	3.6	2.0	1.3	1.2	0.6	0.8	2.8	4.1
24	1.7	7.9	9.5	4.2	3.5	1.8	1.3	1.2	1.0	0.8	2.5	3.8
25	1.7	7.5	10.2	3.8	3.8	1.8	1.6	1.7	1.5	1.0	2.5	3.4
26	0.5	6.5	11.5	3.7	3.8	1.8	1.8	2.7	1.5	1.0	2.5	2.8
27	3.3	5.5	10.7	3.6	3.5	1.7	1.8	2.1	1.8	1.0	2.3	2.8
28	3.3	4.5	8.0	3.5	3.6	1.6	2.2	1.8	1.9	0.9	2.5	2.7
29	3.0		7.4	3.3	3.9	1.6	3.8	1.6	2.2	0.8	3.5	2.7
30	3.2		6.3	3.2	3.5	1.5	4.5	1.5	2.0	0.8	4.9	2.6
31	3.3		5.6		3.2		4.1	1.3		0.8		2.5

DAILY RIVER STAGES.

417

Susquehanna River system—Susquehanna River, Harrisburg, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.7	3.9	4.7	8.7	6.0	4.3	2.0	1.4	2.7	0.8	4.7	3.1
2	2.3	3.4	4.3	7.4	5.4	4.2	2.2	1.5	2.3	0.8	4.0	3.2
3	2.2	3.0	4.2	6.4	4.8	3.9	2.0	1.4	3.0	0.7	3.7	3.1
4	2.7	2.7	3.9	5.8	4.7	3.6	1.8	2.3	2.5	0.7	3.5	3.0
5	1.9	2.7	3.7	5.4	4.4	3.3	1.7	4.6	2.1	0.7	3.2	3.7
6	1.9	2.7	3.6	4.9	4.3	3.0	1.6	5.3	1.9	0.7	3.0	5.0
7	2.2	2.7	3.5	4.5	4.7	2.8	1.5	4.0	1.7	0.7	2.9	4.5
8	2.5	3.1	3.5	4.4	5.5	2.7	1.4	3.5	1.7	1.0	2.5	4.1
9	2.7	3.4	3.3	4.2	6.2	2.5	1.3	3.1	1.7	1.3	2.5	3.8
10	2.8	3.5	3.3	3.8	5.6	2.5	1.2	3.7	2.0	1.4	2.5	3.6
11	3.0	3.4	3.8	3.7	5.2	2.3	1.2	4.2	2.8	2.2	2.6	3.1
12	3.0	3.8	4.9	3.5	4.8	2.3	1.1	3.8	2.8	2.4	4.0	2.5
13	3.3	4.4	6.5	3.3	4.5	2.2	1.0	3.3	2.6	2.3	8.8	2.2
14	4.0	7.7	8.7	3.2	4.0	2.2	0.9	2.7	2.1	2.0	8.0	2.2
15	6.8	8.2	9.8	3.2	4.0	2.4	0.8	2.5	1.9	2.0	6.6	2.1
16	8.1	7.5	9.3	3.7	4.2	2.8	0.8	2.2	1.8	2.1	5.5	2.0
17	7.8	6.5	8.1	4.1	5.2	3.2	0.8	2.0	1.4	2.2	4.8	2.0
18	7.6	5.8	7.2	3.9	6.1	3.0	0.7	1.9	1.3	3.2	4.3	1.9
19	6.6	5.0	6.3	3.7	5.3	2.7	0.7	2.3	1.2	3.8	4.2	2.0
20	5.8	4.3	5.8	3.5	5.3	2.4	0.8	3.0	1.0	4.0	4.2	2.5
21	5.8	4.7	7.3	3.4	5.5	2.3	0.9	4.4	0.9	4.3	4.2	2.9
22	6.2	6.8	9.2	3.3	6.7	2.3	0.8	4.3	0.9	4.2	4.6	3.1
23	7.4	6.8	10.9	3.2	6.5	2.1	0.9	3.8	0.9	7.3	4.8	3.5
24	9.2	7.8	15.2	3.0	6.0	2.0	0.8	3.4	0.8	8.3	4.7	5.4
25	10.5	6.7	15.2	3.5	7.0	2.2	0.8	3.0	0.8	7.4	4.3	7.8
26	9.5	6.2	11.7	6.7	6.5	2.1	0.8	2.7	0.8	6.2	4.0	7.7
27	8.0	5.7	9.2	10.3	6.5	2.0	1.3	2.5	0.9	5.7	3.9	6.3
28	7.0	5.0	7.8	9.5	6.2	1.9	1.2	2.4	0.9	5.4	3.7	5.3
29	6.1	.....	6.7	8.2	5.8	1.8	1.8	4.2	0.8	5.7	3.5	4.8
30	5.5	.....	7.0	6.7	5.3	1.7	1.6	3.8	0.8	6.1	3.3	4.3
31	4.8	.....	9.0	.....	4.9	.....	1.3	3.0	.....	5.3	.....	3.8

1899.

1	3.3	2.5	8.4	7.2	3.4	2.5	1.8	0.8	1.8	1.1	0.5	1.8
2	3.2	2.0	8.2	6.4	3.1	2.6	1.7	0.8	1.5	0.8	1.7	1.6
3	2.9	1.9	7.8	5.8	3.1	2.5	1.7	0.8	1.2	0.8	2.5	1.5
4	3.3	2.2	7.4	5.3	3.4	2.5	1.5	0.8	1.1	0.8	3.2	1.5
5	3.6	2.6	8.0	4.9	3.2	2.5	1.3	0.8	1.1	0.7	4.5	1.5
6	5.0	2.7	12.5	4.4	3.2	2.3	1.2	0.9	1.0	0.7	3.9	1.5
7	8.0	2.8	¹ 13.0	4.2	3.0	2.1	1.2	0.8	0.9	0.6	3.8	1.5
8	6.1	2.4	11.4	4.8	2.8	1.9	1.2	0.8	0.9	0.6	3.2	1.5
9	6.1	2.5	9.2	6.8	2.8	1.9	1.2	0.8	0.8	0.6	2.8	1.5
10	5.5	4.4	7.7	8.8	2.7	1.9	1.2	0.8	1.0	0.7	2.5	1.5
11	4.7	4.4	6.5	8.4	2.8	1.8	1.4	0.7	1.0	0.6	2.2	1.5
12	4.0	4.4	5.8	7.8	2.8	1.7	1.2	0.7	0.8	0.6	2.2	1.5
13	3.4	4.4	5.8	6.8	2.9	1.7	1.2	1.1	0.8	0.5	2.1	2.8
14	3.2	4.6	7.5	6.8	2.8	1.6	1.2	1.1	1.4	0.5	2.0	5.5
15	3.4	4.6	8.4	8.0	2.6	1.5	1.2	1.2	1.2	0.5	2.2	6.3
16	3.8	4.7	8.0	8.0	2.5	1.5	1.1	0.9	0.8	0.4	2.4	6.0
17	4.1	4.8	7.4	7.8	2.5	1.4	1.0	0.7	0.8	0.4	2.4	5.3
18	7.0	4.8	6.4	7.3	2.6	1.2	1.2	0.7	0.8	0.4	2.4	4.6
19	6.4	4.9	6.3	6.8	3.8	1.2	1.2	0.5	0.6	0.4	2.8	4.1
20	5.8	4.8	7.2	6.0	4.8	1.2	1.2	0.5	0.7	0.3	3.0	3.8
21	4.1	4.9	8.5	5.4	5.2	1.2	1.2	0.5	0.8	0.3	2.9	3.8
22	4.4	5.3	8.2	5.1	4.2	1.2	1.3	0.5	0.7	0.3	2.6	3.8
23	4.3	² 7.5	7.5	4.9	3.9	1.1	1.3	0.5	0.7	0.3	2.5	4.5
24	4.1	7.5	7.2	4.5	3.6	1.0	1.3	0.5	0.7	0.2	2.2	4.2
25	4.2	7.2	7.4	4.4	3.2	1.4	1.2	0.5	0.7	0.2	2.2	5.8
26	5.3	6.8	7.4	4.0	3.0	2.0	1.0	0.4	0.7	0.2	2.2	6.8
27	4.6	7.3	6.8	3.9	2.9	1.7	1.0	0.7	1.0	0.3	2.2	5.2
28	3.1	9.0	6.3	3.8	2.7	1.5	1.0	4.0	1.3	0.3	2.0	4.6
29	3.3	6.8	3.7	2.5	1.5	0.9	2.7	1.2	0.4	2.0	3.8
30	3.0	7.8	3.4	2.5	1.8	0.8	2.5	1.1	0.3	1.8	3.0
31	3.0	8.1	2.5	0.8	2.2	0.3	2.2

¹13.5 at 4 p. m.²10.4 at 12 m.

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DAILY RIVER STAGES.

*Susquehanna River system—Juniata River, Huntingdon, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.9	3.1	4.0	6.3	3.8	3.2	4.0	4.2	2.9	5.5	3.6	3.8
2	3.9	4.1	4.0	6.0	3.8	3.2	3.9	4.2	2.9	4.5	3.6	3.7
3	3.9	4.0	3.0	5.3	3.8	3.2	3.9	4.0	2.9	3.3	3.6	3.7
4	3.2	4.0	3.0	5.0	3.8	3.2	3.8	3.8	2.9	3.3	3.9	3.7
5	3.2	3.9	3.0	4.7	3.8	3.8	3.8	3.7	2.9	3.3	4.9	3.7
6	3.1	3.9	3.0	4.3	3.8	3.5	3.8	3.7	2.9	3.3	5.9	3.6
7	3.0	6.0	3.0	4.3	3.8	3.4	3.7	3.6	2.9	3.3	4.9	3.5
8	3.0	4.6	3.0	4.1	3.6	4.8	3.7	3.8	2.9	3.3	4.5	3.5
9	3.0	4.4	3.0	4.1	3.6	4.0	3.8	3.7	2.9	3.3	4.3	4.4
10	3.0	4.0	3.1	4.0	3.6	4.0	3.9	3.5	2.9	3.3	4.0	4.8
11	3.0	3.8	3.3	4.0	3.6	3.8	3.9	3.4	2.9	3.3	4.0	4.0
12	3.0	3.6	3.3	4.6	3.6	3.6	3.8	3.3	2.9	3.3	4.4	4.0
13	3.0	3.6	3.3	4.9	3.6	3.4	3.6	3.4	3.0	3.7	4.0	4.0
14	2.8	3.9	3.3	4.9	3.6	4.0	3.6	3.5	3.0	3.9	4.0	4.0
15	2.8	3.9	3.4	4.7	3.6	4.4	3.3	3.4	3.0	4.2	3.9	3.9
16	2.8	4.6	3.4	4.4	3.6	4.0	4.4	3.3	3.1	3.9	3.9	3.9
17	2.8	4.6	3.4	4.2	3.6	6.3	4.0	3.2	3.0	3.8	3.9	3.8
18	2.8	4.0	3.4	4.1	3.5	5.4	3.8	3.1	2.9	3.5	3.8	3.8
19	2.8	4.0	3.4	4.1	3.4	5.0	3.8	3.1	2.9	3.5	3.8	3.8
20	2.8	3.9	3.8	4.0	3.4	4.9	3.7	3.1	3.1	3.4	3.7	3.8
21	2.8	3.9	3.8	4.0	3.4	5.0	3.7	3.0	3.0	3.7	3.5	3.6
22	2.8	3.8	4.0	4.0	3.4	4.4	3.7	3.0	2.9	3.7	3.9	3.4
23	2.8	3.8	4.6	4.0	3.4	4.0	3.7	3.0	2.9	3.7	3.9	3.4
24	3.0	4.0	4.6	4.0	3.4	4.0	3.7	3.0	2.9	3.9	3.8	3.4
25	4.6	4.0	4.0	4.0	3.4	6.9	5.0	3.0	2.9	3.9	3.7	3.4
26	4.0	3.9	4.5	4.0	3.4	5.9	4.0	3.0	2.9	3.9	3.6	3.4
27	3.6	3.9	4.9	4.0	3.4	5.0	3.8	3.0	2.9	3.8	3.7	3.4
28	3.3	3.9	5.0	4.0	3.4	4.5	4.7	3.0	2.9	3.8	3.7	3.4
29	3.3	4.0	6.3	3.9	3.4	4.3	4.0	3.0	2.9	3.7	4.0	3.4
30	3.1	-----	7.7	3.8	3.3	4.0	4.9	3.0	11.5	3.6	3.9	3.4
31	3.0	-----	7.3	-----	3.2	-----	4.9	3.0	-----	3.6	-----	3.4

1897.

1	3.6	3.4	4.3	4.0	3.8	3.5	3.0	3.3	2.8	2.8	2.8	3.8
2	3.6	3.3	4.0	3.9	5.7	3.4	3.0	3.2	2.8	2.8	4.0	3.5
3	3.6	3.3	4.4	3.9	7.2	3.3	3.0	3.1	2.8	2.8	4.2	3.5
4	3.5	3.3	5.4	3.9	6.0	3.3	3.0	3.1	2.8	2.8	3.2	3.5
5	4.9	3.3	5.2	3.9	5.7	3.4	3.0	3.4	2.8	2.8	3.0	4.7
6	4.3	3.2	6.9	4.0	5.2	3.4	3.0	3.2	2.8	2.8	3.0	4.5
7	3.9	5.4	6.3	4.0	5.0	3.3	3.0	3.1	2.8	2.8	3.0	4.2
8	3.9	5.0	5.7	4.0	4.7	3.3	3.0	3.0	2.8	2.8	3.0	3.9
9	3.9	4.5	5.2	6.3	4.3	3.3	3.0	3.0	2.8	2.8	3.5	3.7
10	3.9	4.0	5.2	6.7	4.3	3.2	2.8	3.0	2.8	2.8	4.2	3.7
11	3.7	3.9	5.4	5.5	4.1	3.0	2.8	4.0	2.8	2.8	3.7	3.7
12	3.6	3.9	5.3	5.3	4.0	3.0	2.8	3.2	2.8	2.8	3.7	3.7
13	3.6	3.7	5.3	5.0	4.0	3.0	2.8	3.0	2.8	2.8	3.5	3.9
14	3.6	3.7	5.3	4.7	5.0	3.0	2.8	3.0	2.8	2.8	3.0	3.7
15	3.6	3.7	5.1	5.0	4.8	3.0	2.8	3.0	2.8	2.8	3.2	6.0
16	3.6	3.8	4.8	5.0	4.4	3.0	2.8	3.0	2.8	2.8	4.0	5.0
17	3.5	3.8	4.5	5.2	4.3	3.0	2.8	3.0	2.8	2.8	4.0	4.5
18	3.5	4.8	4.3	5.0	4.1	3.0	2.8	3.0	2.8	2.8	4.0	4.5
19	3.5	5.2	5.3	4.7	4.0	3.0	4.0	3.0	2.8	2.8	3.8	4.3
20	3.5	4.8	6.3	4.3	4.0	3.0	3.7	3.0	2.8	2.8	3.5	4.0
21	3.5	4.4	5.9	4.2	4.0	3.5	3.5	3.0	2.8	2.8	3.2	4.0
22	3.4	5.2	5.3	4.1	3.9	3.0	3.4	3.0	2.8	2.8	3.0	4.0
23	3.4	8.7	6.3	4.0	3.9	3.0	3.4	3.0	2.8	2.8	3.0	4.0
24	3.4	7.7	6.4	4.0	3.9	3.0	3.2	3.0	3.8	2.8	3.0	3.9
25	3.4	5.4	6.0	4.0	3.8	3.2	3.1	3.0	3.5	2.8	3.0	3.9
26	3.4	5.0	5.5	3.9	3.8	3.0	3.0	3.0	3.0	3.0	3.0	3.9
27	3.4	4.5	5.2	3.9	3.8	3.0	3.0	3.0	3.0	2.9	4.0	3.9
28	3.4	4.3	4.9	3.9	3.7	3.0	4.0	3.0	3.0	2.8	4.0	3.9
29	3.4	-----	4.5	3.9	3.6	3.0	4.0	2.8	3.0	2.8	4.0	3.9
30	3.4	-----	4.5	3.8	3.5	3.0	3.5	2.8	2.8	2.8	4.0	3.9
31	4.4	-----	4.4	-----	3.5	-----	3.4	2.8	-----	2.8	-----	3.9

DAILY RIVER STAGES.

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Susquehanna River system—Juniata River, Huntingdon, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.9	4.2	4.0	5.5	4.0	4.1	2.9	3.7	3.0	2.8	3.9	3.6
2	3.8	4.2	4.0	5.0	3.9	4.0	2.9	3.0	3.0	2.8	3.9	3.5
3	3.7	4.1	4.0	4.8	4.0	4.0	2.9	3.0	3.0	2.8	3.8	3.4
4	3.7	4.0	4.0	4.7	4.0	3.9	2.9	3.4	2.9	2.8	3.8	3.2
5	3.7	Frozen.	4.0	4.7	3.9	3.9	2.9	6.5	2.9	2.8	3.7	5.0
6	3.6	-----	4.0	4.4	4.0	3.8	2.9	4.0	2.9	2.8	3.6	4.5
7	3.6	-----	3.9	4.4	4.5	3.7	2.8	3.4	2.9	2.8	3.5	4.0
8	4.0	-----	3.9	4.3	5.0	3.7	2.8	3.0	2.9	2.8	3.5	3.8
9	4.7	-----	3.9	4.1	4.5	3.6	2.8	4.4	2.9	2.8	3.5	3.7
10	4.7	-----	3.9	4.1	4.2	3.4	2.8	4.0	2.9	2.8	3.5	3.7
11	4.0	-----	4.0	4.0	4.2	3.3	2.8	4.0	2.9	2.8	5.5	3.6
12	4.0	5.2	4.2	3.9	4.0	3.1	2.8	4.0	2.9	2.8	4.0	3.6
13	5.0	5.2	4.7	3.9	4.0	3.1	2.8	3.8	2.9	2.8	4.0	3.6
14	5.0	5.2	5.0	3.9	4.0	3.8	2.8	3.4	2.9	2.8	4.0	3.6
15	5.0	5.0	4.5	3.9	4.0	3.5	2.8	3.2	2.8	2.8	4.0	3.4
16	5.9	5.0	4.7	3.9	5.4	3.1	2.8	3.0	2.8	2.8	4.0	3.4
17	5.0	Frozen.	4.7	3.9	5.6	3.0	2.8	3.0	2.8	2.7	4.0	3.4
18	4.8	-----	4.5	3.9	5.3	3.0	2.8	3.0	2.8	2.7	4.0	3.4
19	4.8	-----	4.3	3.9	5.0	3.0	2.8	3.8	2.8	5.9	4.0	3.4
20	4.8	-----	4.3	3.9	5.0	3.6	2.8	4.0	2.8	5.3	4.0	3.5
21	5.5	5.0	4.6	3.9	5.2	3.2	2.8	3.7	2.8	5.0	4.0	4.5
22	5.0	5.0	6.0	3.9	5.0	3.0	2.8	3.5	2.8	9.7	4.0	4.9
23	7.0	4.6	10.2	3.9	5.0	3.0	2.8	3.2	2.8	6.0	3.8	5.9
24	6.0	4.4	7.3	4.2	8.0	3.0	2.8	3.0	2.8	5.0	3.8	5.0
25	5.3	4.2	6.5	4.8	5.8	3.0	2.8	3.0	2.8	5.0	3.8	4.8
26	5.0	4.0	5.5	4.5	5.5	3.0	2.8	3.0	2.8	4.1	3.8	4.6
27	5.0	4.0	5.2	4.2	5.0	3.0	3.0	3.0	3.3	4.1	3.8	4.3
28	4.7	4.0	4.9	4.1	4.7	3.0	3.0	3.0	3.0	4.1	3.8	4.3
29	4.7	-----	7.9	4.0	4.5	3.0	3.3	3.0	2.9	4.1	3.6	4.3
30	4.3	-----	7.3	4.0	4.4	2.9	3.1	3.0	2.8	4.1	3.8	4.3
31	4.2	-----	6.2	-----	4.2	-----	3.0	3.0	-----	4.1	-----	4.3

1899.

1	4.0	Frozen.	5.5	-----	-----	-----	3.0	3.0	3.0	3.0	3.8	3.0
2	4.0	-----	5.5	-----	-----	-----	3.0	3.0	3.0	3.0	4.8	3.0
3	4.0	-----	5.5	-----	-----	3.5	3.0	3.0	3.0	3.0	3.8	3.0
4	4.0	-----	5.5	-----	-----	3.5	3.0	3.0	3.0	3.0	3.2	3.0
5	4.6	-----	7.5	-----	-----	3.5	3.0	3.0	3.0	3.0	3.0	3.0
6	4.9	-----	6.5	-----	-----	3.5	3.4	3.0	3.0	3.0	3.0	3.0
7	4.6	-----	6.5	-----	-----	3.2	3.9	3.0	3.0	3.0	3.0	3.0
8	Frozen.	-----	6.4	-----	-----	3.2	3.4	3.0	3.0	3.0	3.0	3.0
9	-----	-----	5.0	-----	-----	3.2	3.8	3.0	3.0	3.0	3.0	3.0
10	-----	-----	-----	-----	-----	3.0	3.2	3.0	3.0	2.8	3.0	3.0
11	-----	-----	-----	-----	-----	3.0	3.0	3.0	3.0	2.8	3.0	3.0
12	-----	-----	-----	-----	-----	3.0	3.0	3.0	5.0	2.8	3.0	3.0
13	-----	-----	-----	-----	-----	3.0	3.0	3.0	4.0	2.8	3.0	4.8
14	-----	-----	-----	-----	-----	3.0	3.0	3.0	3.0	2.8	3.0	4.2
15	5.0	-----	-----	-----	-----	3.0	3.0	3.0	3.0	2.8	3.0	4.0
16	5.0	-----	-----	-----	-----	3.0	3.3	3.0	3.0	2.8	3.0	4.0
17	5.0	-----	-----	-----	-----	3.0	3.3	3.0	3.0	2.8	3.0	3.7
18	5.0	-----	-----	-----	-----	3.0	3.3	3.0	3.0	2.8	3.0	3.5
19	4.8	-----	-----	-----	-----	3.0	3.0	3.0	3.0	2.8	3.0	3.5
20	4.8	-----	-----	-----	-----	3.0	3.0	3.0	3.0	2.8	3.0	3.5
21	4.6	4.3	-----	-----	-----	3.0	3.0	3.0	3.0	2.8	3.0	3.5
22	4.6	4.3	-----	-----	-----	3.0	3.0	3.0	3.0	2.8	3.0	3.5
23	4.4	5.0	-----	-----	-----	3.0	3.0	3.0	3.0	2.8	3.0	3.5
24	4.4	4.8	-----	-----	-----	3.0	3.0	3.0	3.0	2.8	4.0	4.0
25	5.5	4.8	-----	-----	-----	3.0	3.0	2.9	3.0	2.8	3.6	4.5
26	5.0	4.8	-----	-----	-----	3.0	3.0	2.8	3.0	2.8	3.4	4.5
27	5.0	7.0	-----	-----	-----	3.0	3.0	2.8	3.0	2.8	3.2	4.3
28	Frozen.	5.8	-----	-----	-----	3.0	3.0	3.0	3.0	2.8	3.1	4.3
29	-----	-----	-----	-----	-----	3.0	3.0	4.2	3.0	2.8	3.0	4.3
30	-----	-----	-----	-----	-----	3.0	3.0	3.2	3.0	2.8	3.0	4.3
31	-----	-----	-----	-----	-----	3.0	3.0	3.0	-----	2.8	-----	4.3

DAILY RIVER STAGES.

*Susquehanna River system—Juniata River, Mifflin, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.2	4.3	4.2	9.5	5.0	2.8	4.4	3.4	1.7	16.0	2.4	4.8
2	3.1	4.1	4.6	8.5	4.8	2.7	4.4	3.3	1.6	8.0	2.3	4.7
3	3.1	4.0	4.2	7.5	4.6	2.5	4.3	3.2	1.5	6.0	2.2	Frozen.
4	Frozen.	4.0	4.0	6.5	4.5	2.5	4.2	3.1	1.4	5.0	2.2	-----
5	-----	4.9	3.9	6.0	4.4	2.5	4.2	3.0	1.4	4.0	2.2	-----
6	-----	5.0	3.8	5.8	4.2	2.7	4.2	3.0	1.4	3.5	11.0	-----
7	-----	10.0	3.8	5.5	4.0	2.8	4.0	2.9	1.4	3.0	8.5	-----
8	-----	8.5	3.8	5.2	3.9	3.0	4.1	2.8	1.4	2.5	6.0	-----
9	-----	6.5	3.7	5.0	3.9	4.0	4.1	2.9	1.4	2.5	5.5	5.5
10	-----	5.5	3.7	5.0	3.7	4.0	5.0	2.8	1.4	2.4	5.0	5.5
11	-----	5.0	3.7	5.0	3.6	4.0	4.7	2.7	1.4	2.4	5.0	5.5
12	-----	4.5	3.7	5.1	3.4	4.0	4.6	2.6	1.4	2.4	5.1	5.5
13	-----	4.0	3.8	5.2	3.2	3.9	4.5	2.6	1.4	3.0	5.0	5.5
14	-----	4.0	3.9	5.2	3.2	3.9	4.4	2.5	1.5	3.3	4.5	5.5
15	-----	4.0	3.9	5.2	3.2	4.2	4.3	2.4	1.5	3.3	4.0	5.5
16	-----	4.5	4.0	5.1	3.2	4.2	4.3	2.3	1.8	3.3	4.0	5.4
17	-----	5.0	4.0	5.0	3.1	5.2	4.5	2.2	2.0	3.2	4.0	5.3
18	-----	4.5	4.1	4.9	3.0	5.1	4.4	2.2	2.0	3.1	3.8	5.3
19	-----	4.0	5.6	4.8	2.8	5.0	4.3	2.1	2.2	3.0	3.5	5.3
20	-----	4.0	5.0	4.8	2.8	4.9	4.3	2.0	2.2	3.0	3.2	5.3
21	-----	4.0	5.0	4.8	2.8	4.8	4.1	1.9	2.1	3.0	3.2	5.3
22	-----	Frozen.	5.0	4.8	2.8	4.8	4.0	1.8	2.1	3.0	3.2	5.3
23	-----	-----	5.0	4.9	2.8	4.8	4.0	1.8	2.0	2.8	3.2	5.3
24	-----	-----	4.9	4.9	2.8	4.8	3.9	1.8	2.0	2.6	3.2	Frozen.
25	-----	-----	4.8	4.9	2.8	4.8	3.9	1.8	1.9	2.6	3.2	-----
26	4.8	-----	5.0	5.0	2.8	4.8	3.8	1.8	1.9	2.5	3.2	-----
27	4.6	-----	5.2	5.0	2.8	4.7	3.5	1.8	1.9	2.5	3.2	-----
28	4.6	-----	5.8	5.0	2.8	4.6	3.4	1.8	1.9	2.4	3.2	-----
29	4.5	4.2	7.0	4.9	2.8	4.5	3.4	1.8	1.9	2.4	4.0	-----
30	4.4	-----	10.5	4.9	2.8	4.4	3.4	1.7	1.9	2.4	4.8	-----
31	4.4	-----	11.0	-----	2.8	-----	3.4	1.7	-----	2.4	-----	-----

1897.

1	5.3	Frozen.	7.0	7.0	4.0	4.0	2.5	3.0	1.5	1.5	1.5	2.5
2	5.2	-----	7.0	6.5	5.0	3.5	2.0	3.0	1.5	1.5	1.5	3.5
3	5.2	-----	7.0	6.0	12.0	3.5	2.0	2.5	1.5	1.5	6.0	4.0
4	5.2	-----	7.5	5.5	10.0	3.5	2.0	2.5	1.5	1.5	5.0	4.0
5	5.3	-----	8.0	5.0	9.0	3.5	2.0	2.5	1.5	1.5	4.0	4.0
6	5.3	-----	9.0	4.5	8.0	3.0	2.0	2.5	1.5	1.5	3.0	6.0
7	5.3	-----	10.0	4.5	7.0	3.0	2.0	2.5	1.5	1.5	3.0	7.0
8	5.2	9.0	9.0	5.0	6.0	3.0	2.0	2.5	1.5	1.5	3.0	6.0
9	6.0	9.0	7.0	5.5	5.0	3.0	2.0	2.5	1.5	1.5	3.0	5.0
10	5.9	8.0	7.0	11.0	5.0	3.0	2.0	2.5	1.5	1.5	4.0	4.0
11	5.8	7.0	7.0	9.0	5.0	2.5	2.0	2.5	1.5	1.5	5.0	4.0
12	Frozen.	6.0	7.0	8.0	4.5	3.0	2.0	3.0	1.5	1.5	5.0	4.0
13	-----	5.5	8.0	7.0	4.5	3.0	2.5	3.5	1.5	1.5	4.0	4.0
14	-----	5.5	7.0	6.0	7.0	3.0	2.5	3.5	1.5	2.0	4.0	4.5
15	-----	4.5	7.0	6.5	8.0	2.5	2.5	3.5	1.5	2.0	4.0	6.0
16	-----	3.5	6.5	7.0	7.5	2.5	2.5	3.0	1.5	1.5	5.0	8.0
17	-----	3.0	6.5	7.0	7.0	2.5	2.5	2.5	1.5	1.5	5.0	7.0
18	-----	3.0	7.0	6.5	6.5	2.5	2.5	2.5	2.0	1.5	4.0	6.0
19	-----	3.5	7.5	6.0	6.0	2.5	2.5	2.5	2.0	1.5	3.0	5.0
20	-----	4.0	8.0	5.5	5.5	2.5	3.0	2.5	1.5	1.5	3.0	5.0
21	-----	4.5	8.5	5.0	5.0	3.0	3.0	2.5	1.5	1.5	3.0	5.0
22	-----	5.0	8.5	5.0	5.0	3.5	3.0	2.5	1.5	2.0	3.0	5.0
23	-----	13.0	8.5	5.0	4.5	3.5	3.0	2.5	1.5	2.0	3.0	5.0
24	-----	12.0	8.5	5.0	4.5	3.5	3.0	2.5	1.5	1.5	3.0	5.0
25	-----	9.0	9.0	4.5	4.0	3.0	2.5	2.5	2.0	1.5	3.0	Frozen.
26	-----	8.5	8.5	4.5	4.0	3.0	2.5	2.5	2.0	1.5	3.0	-----
27	-----	7.5	8.0	4.5	4.0	3.0	2.5	2.0	1.5	1.5	3.0	-----
28	-----	7.0	7.5	4.5	4.0	3.0	2.5	2.0	1.5	1.5	3.0	-----
29	-----	-----	7.0	4.0	4.0	3.0	3.0	1.5	1.5	1.5	3.0	-----
30	-----	-----	7.0	4.0	4.0	2.5	3.0	1.5	1.5	1.5	2.5	-----
31	-----	-----	7.0	-----	4.0	-----	3.0	1.5	-----	1.5	-----	-----

DAILY RIVER STAGES.

421

Susquehanna River system—Juniata River, Mifflin, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	5.0	5.0	8.0	5.0	5.5	2.5	2.5	2.5	3.0	3.0	3.0
2		Frozen.	5.0	7.0	4.5	5.0	2.5	2.5	2.5	3.0	3.0	3.0
3			5.0	6.5	4.0	5.0	2.5	2.5	2.5	3.0	2.5	3.0
4			5.0	6.0	4.5	5.0	2.5	2.5	2.5	2.5	2.5	3.0
5			4.0	6.0	4.0	5.0	2.5	4.5	2.5	2.5	2.5	3.5
6			4.0	6.0	4.0	4.5	2.5	4.5	2.5	3.0	2.5	3.5
7			4.0	5.5	4.5	4.5	2.5	4.0	2.5	3.0	2.5	3.0
8	3.0		4.0	5.5	6.0	4.5	2.5	3.5	2.5	3.0	2.5	3.0
9	3.5		4.0	5.5	7.0	4.5	2.5	4.0	2.5	3.0	2.5	3.0
10	4.0	5.0	4.0	5.5	7.0	4.0	2.5	4.5	2.5	3.0	2.5	3.0
11	5.0	5.0	4.0	5.5	6.0	4.0	2.5	6.0	2.0	3.0	2.5	3.0
12	5.0	5.0	4.0	5.5	6.5	3.5	2.5	5.0	2.0	3.0	2.5	3.0
13	5.0	6.0	5.0	5.0	6.0	3.5	2.5	4.5	2.0	3.0	2.5	3.0
14	6.0	7.0	6.0	5.0	6.0	3.5	2.5	4.0	2.0	3.0	2.5	2.5
15	7.0	6.0	5.0	5.0	6.0	3.5	2.0	3.5	2.0	3.0	2.5	2.5
16	8.0	6.0	5.0	5.5	6.5	3.5	2.0	3.0	2.0	3.0	2.5	2.5
17	7.0	Frozen.	6.0	5.5	7.5	3.5	2.0	3.0	2.0	2.5	2.5	2.5
18	6.0		6.0	5.5	8.0	3.5	2.0	3.5	2.0	2.0	2.5	2.5
19	6.0		5.0	5.0	7.5	3.5	2.0	4.0	2.0	6.0	2.5	2.5
20	6.0	6.0	6.0	5.0	8.0	3.5	2.0	5.0	1.5	9.0	2.5	3.5
21	6.0	7.0	7.0	5.5	8.5	4.0	2.5	5.5	1.5	7.0	3.0	3.5
22	7.0	7.0	8.0	5.5	7.5	4.0	2.5	5.0	1.5	10.0	3.0	5.0
23	9.0	6.0	13.0	5.5	6.5	4.5	2.5	4.0	1.5	12.0	3.0	7.0
24	9.0	6.0	12.0	6.0	7.5	4.0	3.0	3.5	1.5	13.0	3.0	6.0
25	8.0	5.0	10.0	6.5	9.0	4.0	3.0	3.5	1.5	10.0	3.0	5.0
26	7.0	5.0	9.0	7.0	9.5	3.5	2.5	3.0	1.5	7.0	3.0	4.5
27	6.0	5.0	8.0	7.0	9.0	3.0	2.5	3.0	1.5	6.0	3.0	4.5
28	5.0	5.0	7.0	7.5	8.0	3.0	2.0	2.5	2.0	8.0	3.0	4.0
29	5.0		8.0	6.5	7.0	2.5	2.0	2.5	4.0	6.0	3.0	4.0
30	5.0		10.0	5.5	6.0	2.5	2.0	2.5	3.0	4.0	3.0	4.0
31	5.0		9.0		6.0		2.5	2.5		3.0		4.0

1899.

1	4.0	6.0	8.0	7.0	4.5	6.0	5.5	4.0	4.0	4.0	2.5	2.5
2	4.0	6.0	8.0	6.0	4.5	5.5	5.5	4.0	4.0	3.5	2.5	2.5
3	4.0	6.0	8.0	6.0	5.0	5.5	5.5	4.0	3.5	3.5	2.5	2.5
4	4.0	6.0	9.0	6.0	6.0	5.5	5.5	4.0	3.0	3.5	2.5	2.5
5	4.0	6.0	10.0	6.0	6.0	5.5	5.5	4.0	3.0	3.5	3.5	2.5
6	4.0	6.5	11.0	6.0	5.5	5.5	5.0	4.5	3.0	3.5	4.5	2.5
7	7.0	7.0	9.0	6.0	5.5	6.0	5.0	4.5	3.0	3.5	5.0	2.5
8	7.0	7.0	7.0	6.5	5.5	6.0	5.0	4.5	2.5	3.5	4.5	2.5
9	6.0	7.0	6.0	7.5	6.0	6.0	5.5	4.0	2.5	4.0	4.0	2.5
10	6.0	Frozen.	6.0	8.0	7.0	6.0	6.0	4.0	2.5	4.0	4.0	2.5
11	6.0		6.0	7.0	6.5	5.5	6.5	4.0	2.5	3.5	4.0	2.5
12	6.0		5.5	6.5	6.0	5.0	6.0	4.0	3.0	3.5	3.5	2.5
13	6.0		5.5	6.0	6.0	5.0	5.5	4.0	3.5	3.5	3.5	6.0
14	5.0		5.5	6.0	5.5	5.0	5.5	4.0	4.0	3.5	3.5	6.0
15	5.0		5.5	6.0	5.0	5.0	5.5	3.5	4.0	3.5	3.5	5.0
16	6.0		6.0	6.0	5.0	5.5	5.5	3.0	4.0	3.0	3.5	4.5
17	6.0		6.0	5.5	5.0	5.5	5.0	2.5	4.0	3.0	3.0	4.5
18	5.5		6.0	5.5	6.0	5.5	5.0	2.5	3.5	3.0	3.0	4.0
19	5.0		6.0	5.5	8.5	5.5	5.0	2.5	3.5	2.5	3.0	4.0
20	5.0		6.0	5.5	8.0	5.5	5.0	2.5	3.5	2.5	2.5	4.0
21	5.0		6.0	5.5	7.0	5.5	5.0	2.5	3.5	2.5	2.5	3.5
22	5.0		6.0	5.5	6.5	5.0	5.0	3.0	4.0	2.5	2.5	3.0
23	5.0	12.0	6.0	5.5	6.0	5.0	5.0	3.0	3.5	2.5	2.5	3.0
24	5.0	8.5	6.5	5.0	6.5	5.0	5.0	3.0	3.5	2.5	3.0	3.5
25	5.0	5.0	7.0	5.0	6.0	5.0	5.0	2.5	3.5	2.5	3.0	6.0
26	7.0	5.0	6.5	5.0	5.5	6.0	5.0	2.5	3.5	2.5	2.5	6.0
27	8.0	10.0	6.0	5.0	5.0	6.0	4.5	3.0	3.5	2.5	2.5	5.0
28	7.0	9.0	6.0	5.0	5.0	5.5	4.5	3.5	3.5	2.5	2.5	5.0
29	6.5		9.0	4.5	5.0	5.5	4.0	4.0	3.5	2.5	2.5	5.0
30	6.0		8.0	4.5	6.0	5.5	4.0	4.5	4.0	2.5	2.5	4.5
31	6.0		7.0		6.0		4.0	4.5		2.5		Frozen.

DAILY RIVER STAGES.

Susquehanna River system—West Branch of Susquehanna River, Karthaus, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.0	Frozen.	2.8	6.0	2.0	1.0	1.0	3.5	0.2	4.8	2.0	1.0
2	2.0	2.6	2.6	5.0	2.0	1.0	1.0	4.0	0.5	4.0	2.0	1.0
3	Frozen.	3.0	2.5	4.0	2.0	1.0	1.0	3.6	0.5	3.8	2.0	1.0
4		3.0	2.0	3.5	1.8	1.0	1.0	3.0	0.5	3.6	1.8	1.0
5		2.5	Frozen.	2.8	1.8	1.0	1.5	2.8	0.5	3.0	1.6	1.0
6		2.8		2.8	1.5	1.5	1.5	2.6	0.5	2.8	1.5	1.0
7		4.3		2.8	1.5	2.0	1.0	2.5	0.5	2.5	1.5	1.0
8		3.5		2.5	1.5	2.0	0.8	1.0	0.5	2.4	1.5	1.0
9		3.0		2.5	1.4	2.0	1.0	1.0	0.5	2.0	1.5	2.0
10		3.0		2.5	1.4	2.0	1.0	1.0	0.5	2.0	2.0	3.0
11		2.3		2.5	1.3	1.8	1.0	1.0	0.5	1.6	2.8	2.6
12		2.0		3.0	1.3	1.6	1.0	1.0	0.5	1.0	2.6	2.0
13		2.0		3.5	1.3	1.8	1.0	1.0	0.5	1.4	2.0	2.0
14		2.0		3.0	1.5	2.4	1.0	1.0	0.5	2.0	1.8	2.0
15		2.5		3.0	1.5	2.0	1.5	1.0	0.8	2.8	1.6	2.0
16		3.0		3.0	1.0	2.0	2.0	1.0	0.8	2.6	1.6	1.8
17		2.4		3.0	1.0	1.1	2.8	1.0	0.8	2.2	1.6	1.6
18		2.0		3.0	1.0	1.0	2.0	1.0	0.9	2.0	1.6	1.0
19		2.0		2.6	1.0	1.0	1.5	1.0	0.9	2.0	1.5	1.0
20		2.0		2.2	1.0	1.0	1.5	1.0	1.6	1.8	1.0	1.4
21		2.0		2.0	1.0	1.0	1.1	1.0	1.6	2.0	1.0	1.4
22		2.0		2.5	1.0	1.0	1.0	1.0	1.6	2.0	1.0	1.8
23		2.0	2.2	2.5	1.0	1.0	1.5	1.0	1.6	2.0	1.0	2.0
24		2.0	2.0	2.5	1.0	2.5	1.5	1.0	1.6	2.0	1.0	2.0
25		1.5	2.0	2.0	1.0	3.0	2.4	1.0	1.8	2.0	1.0	1.5
26		1.5	2.5	2.0	1.0	3.0	2.4	1.0	2.0	2.0	1.0	1.0
27		1.5	3.0	2.0	1.0	2.5	2.0	1.0	2.0	2.0	1.0	1.0
28		1.5	3.6	2.0	1.0	2.3	2.2	1.0	2.8	2.0	1.0	1.0
29		2.0	4.5	2.0	1.0	1.5	3.0	1.0	3.6	2.0	1.0	1.0
30			7.0	2.0	1.0	1.0	3.5	1.0	4.2	2.0	1.0	1.0
31			6.5		1.2		4.0	1.0		2.0		1.0

1897.

1	1.0	Frozen.	2.6	2.0	2.0	2.8	0.5	2.4	1.0	1.0	0.2	2.3
2	1.0		2.0	2.0	2.6	2.8	0.5	2.0	0.8	0.8	0.8	2.1
3	1.0		2.0	2.0	5.0	2.6	0.5	2.0	0.6	0.6	0.8	2.0
4	1.0		3.0	2.0	4.2	2.5	0.5	2.0	0.2	0.5	0.8	2.0
5	1.0		4.0	2.0	4.0	2.0	0.5	2.0	0.2	0.3	1.0	2.5
6	1.8		6.0	2.0	3.8	1.8	0.5	2.0	0.2	0.2	1.0	3.0
7	3.0		5.0	2.5	3.0	1.6	0.5	2.0	0.2	0.2	1.0	3.0
8	3.0		4.6	3.0	2.6	1.0	0.5	2.0	0.2	0.2	1.0	2.8
9	3.0		4.0	4.0	2.0	1.0	0.5	2.0	0.2	0.2	1.0	2.6
10	2.5		4.0	5.0	2.0	0.6	0.5	2.0	0.2	0.2	1.5	2.5
11	2.5		4.0	4.0	2.0	0.5	0.5	2.0	0.1	0.2	1.7	2.0
12	2.5		4.0	3.5	2.0	0.5	0.5	2.0	0.1	0.2	1.8	2.0
13	2.5		4.0	3.0	2.0	0.5	0.5	1.8	0.1	0.2	2.0	2.0
14	2.5		4.0	3.0	2.0	0.5	0.5	1.8	0.1	0.2	2.0	2.0
15	2.0		4.0	4.0	2.0	0.5	0.5	1.6	0.1	0.2	2.0	2.5
16	2.0		4.0	5.0	2.0	0.5	0.7	1.6	0.1	0.2	2.0	3.0
17	2.0		4.0	4.0	2.0	0.5	0.7	1.5	0.1	0.2	2.8	3.8
18	2.0		3.6	4.2	2.0	0.5	0.7	1.0	0.1	0.2	2.5	3.0
19	2.0		4.0	3.8	2.5	0.5	1.0	1.0	0.1	0.2	2.0	3.0
20	2.0		4.0	3.6	2.8	0.5	1.5	1.0	0.1	0.2	2.0	2.5
21	Frozen.		4.0	3.0	2.8	0.5	1.5	1.0	0.1	0.2	2.0	2.5
22		3.0	4.0	2.4	2.8	0.5	1.5	1.0	0.8	0.2	2.0	2.0
23		4.0	4.0	2.0	2.6	0.5	2.0	1.0	1.8	0.2	2.0	2.0
24		6.0	4.5	2.0	2.2	0.5	2.0	1.0	2.0	0.2	2.0	2.0
25		4.0	5.0	2.0	2.0	0.5	2.0	1.0	2.6	0.2	2.0	2.0
26		4.0	4.0	2.0	2.0	0.5	2.0	1.0	2.0	0.2	2.0	2.0
27		4.0	3.5	2.0	2.0	0.5	2.0	1.0	1.4	0.2	2.5	1.5
28		3.0	3.0	2.0	2.0	0.5	2.4	1.0	1.2	0.2	2.5	1.5
29			2.8	2.0	2.0	0.5	2.6	1.0	1.2	0.2	2.5	1.0
30			2.0	2.0	2.0	0.5	2.6	1.0	1.2	0.2	2.5	1.0
31			2.0		2.0		2.4	1.0		0.2		1.0

DAILY RIVER STAGES.

423

Susquehanna River system—West Branch of Susquehanna River, Karthaus, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.0	2.0	1.5	4.0	1.5	2.0	1.0	0.1	0.1	0.1	1.5	1.0
2	1.0	2.5	1.5	3.0	1.5	2.0	1.0	0.1	0.1	0.1	1.0	1.0
3	1.0	2.5	1.5	3.0	1.5	2.0	1.0	0.1	0.1	0.1	1.0	1.0
4	1.0	2.0	1.5	3.0	1.5	2.0	1.0	0.1	0.1	0.1	1.0	1.0
5	1.0	2.0	1.5	2.8	1.5	1.8	1.0	0.1	0.1	0.1	1.0	1.0
6	1.0	1.5	1.5	2.0	1.5	1.5	1.0	0.1	0.1	0.1	1.0	1.0
7	1.0	1.0	1.5	1.5	1.5	1.2	0.8	0.1	0.1	0.1	1.0	1.0
8	1.0	1.0	1.5	1.5	2.5	1.0	0.5	0.1	0.1	0.1	1.0	1.0
9	1.0	1.0	1.5	1.5	2.0	1.0	0.5	0.1	0.1	0.1	1.0	1.0
10	1.5	1.5	1.5	1.0	1.5	1.0	0.5	0.1	0.1	0.1	1.0	Frozen.
11	2.0	2.4	2.0	1.0	1.5	1.0	0.5	0.1	0.1	0.1	4.0	-----
12	2.8	3.0	2.5	1.0	1.5	1.0	0.5	0.1	0.1	0.1	5.0	-----
13	6.0	2.2	3.0	1.0	1.5	1.5	0.5	0.1	0.1	0.1	4.0	-----
14	6.0	2.0	3.0	1.0	1.5	2.5	0.5	0.1	0.1	0.1	3.0	-----
15	5.2	2.0	3.0	1.0	1.5	2.5	0.5	0.1	0.1	0.1	2.0	-----
16	4.5	2.0	2.8	1.0	1.5	2.0	0.5	0.1	0.1	1.0	1.5	-----
17	4.0	2.0	2.5	1.0	2.5	2.0	0.5	0.1	0.1	1.3	1.0	-----
18	4.0	2.0	2.5	1.0	2.5	2.0	0.5	0.1	0.1	2.5	1.0	-----
19	3.2	2.0	2.5	1.0	2.0	2.0	0.5	0.1	0.1	3.0	1.0	1.0
20	3.0	2.0	4.0	1.0	2.0	1.5	0.3	0.1	0.1	3.5	1.0	1.5
21	3.0	2.5	4.5	1.0	2.0	1.5	0.1	0.1	0.1	4.5	1.0	2.5
22	3.0	3.0	5.5	1.0	2.5	1.0	0.1	0.1	0.1	4.0	1.0	3.0
23	3.0	2.5	10.0	1.0	3.0	1.0	0.1	0.1	0.1	4.0	1.0	5.0
24	5.0	2.0	9.0	1.0	3.0	1.0	0.1	0.1	0.1	4.0	1.0	4.5
25	5.2	2.0	6.0	4.0	3.0	1.0	0.1	0.1	0.1	4.0	1.0	4.1
26	5.0	2.0	4.5	3.0	2.5	1.0	0.1	0.1	0.1	3.8	1.0	3.5
27	4.5	1.5	4.0	3.0	2.5	1.0	0.1	0.1	0.1	3.6	1.0	3.0
28	3.0	1.5	3.2	2.6	2.5	1.0	0.1	0.1	0.1	3.0	1.0	2.6
29	3.0	-----	4.0	2.0	2.0	1.0	0.1	0.1	0.1	2.5	1.0	2.0
30	2.5	-----	6.2	2.0	2.0	1.0	0.1	0.1	0.1	2.0	1.0	1.5
31	2.0	-----	5.0	-----	2.0	-----	0.1	0.1	-----	2.0	-----	1.5

1899.

1	1.5	1.0	4.0	4.0	1.0	-----	0.5	-----	-----	-----	-----	1.0
2	1.5	1.0	3.6	3.5	1.0	-----	0.5	-----	-----	-----	-----	1.0
3	1.0	0.5	4.0	3.0	1.0	-----	0.5	-----	-----	-----	-----	1.0
4	1.0	0.5	4.2	2.5	1.0	-----	0.5	-----	-----	-----	-----	1.0
5	1.0	0.5	5.0	2.3	1.0	-----	0.5	-----	-----	-----	-----	1.0
6	1.0	0.5	7.0	2.0	1.0	-----	0.5	-----	-----	-----	-----	1.0
7	1.0	0.5	5.0	2.0	1.0	-----	0.5	-----	-----	-----	-----	1.0
8	1.0	0.5	4.0	2.8	1.0	-----	0.5	-----	-----	-----	-----	1.0
9	1.0	0.5	3.0	2.8	1.0	-----	0.5	-----	-----	-----	-----	1.0
10	1.0	0.5	2.8	3.0	1.0	-----	0.5	-----	-----	-----	-----	1.5
11	1.0	Frozen.	2.6	2.5	1.0	-----	0.5	-----	-----	-----	-----	1.5
12	1.0	-----	2.6	2.0	1.0	-----	0.5	-----	-----	-----	-----	1.5
13	1.0	-----	2.6	2.0	1.0	-----	1.0	-----	-----	-----	-----	1.5
14	1.0	-----	2.8	2.0	1.0	-----	1.5	-----	-----	-----	-----	1.5
15	1.5	-----	2.6	2.0	1.0	-----	1.0	-----	-----	-----	-----	1.0
16	2.0	-----	2.6	2.0	0.8	-----	1.0	-----	-----	-----	-----	1.0
17	3.0	-----	2.6	1.5	1.0	-----	1.0	-----	-----	-----	-----	1.0
18	2.5	-----	2.6	1.3	2.5	-----	1.0	-----	-----	-----	-----	1.5
19	2.0	-----	3.0	1.0	6.0	-----	1.5	-----	-----	-----	-----	2.0
20	2.0	-----	4.0	1.0	4.0	-----	1.8	-----	-----	-----	-----	2.0
21	2.0	1.0	3.5	1.0	3.0	-----	2.0	-----	-----	-----	-----	2.5
22	2.0	1.5	3.0	1.0	2.0	-----	2.5	-----	-----	-----	-----	2.0
23	2.0	2.0	3.0	1.0	1.5	-----	2.2	-----	-----	-----	-----	1.4
24	2.0	2.0	3.0	1.0	1.0	-----	2.0	-----	-----	-----	-----	1.2
25	2.0	2.0	3.0	1.0	1.0	-----	1.8	-----	-----	-----	-----	1.0
26	2.0	3.0	2.5	1.0	0.8	-----	1.5	-----	-----	-----	-----	1.0
27	1.5	3.8	2.5	1.0	0.6	-----	1.0	-----	-----	-----	-----	1.0
28	1.0	4.6	2.8	1.0	0.5	-----	1.0	-----	-----	-----	-----	1.0
29	1.0	-----	4.5	1.0	0.5	-----	1.0	-----	-----	-----	-----	1.0
30	1.0	-----	4.6	1.0	0.5	-----	1.0	-----	-----	-----	-----	1.0
31	1.0	-----	4.5	-----	0.5	-----	1.0	-----	-----	-----	-----	1.0

DAILY RIVER STAGES.

*Susquehanna River system—West Branch of Susquehanna River, Keating, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.2	Frozen.	3.0	8.9	2.0	0.5	1.8	5.5	0.5	6.0	0.7	2.0
2	1.7	3.0	2.9	7.4	2.0	0.5	1.5	5.5	0.5	4.0	0.6	2.0
3	1.3	3.6	2.7	7.0	2.0	0.5	1.2	6.5	0.5	2.5	0.6	2.0
4	1.0	3.3	2.5	5.0	2.0	0.5	1.1	5.8	0.5	2.0	0.6	2.0
5	Frozen.	3.0	2.2	4.0	-----	0.5	1.1	4.8	0.4	1.7	0.6	2.0
6	-----	3.0	2.0	4.4	1.7	0.5	1.1	3.8	0.4	1.3	4.0	2.0
7	-----	5.0	2.0	3.6	1.5	0.5	1.1	3.0	0.4	1.0	3.6	2.0
8	-----	5.0	2.0	3.0	1.2	0.7	1.0	2.7	0.4	1.0	3.0	2.0
9	-----	3.4	1.8	2.8	1.0	1.0	1.0	2.2	0.4	0.9	2.6	3.0
10	-----	3.0	1.6	2.5	1.0	1.0	1.0	2.0	0.3	0.9	2.3	3.5
11	-----	2.7	1.6	2.5	0.8	1.0	1.0	1.8	0.3	0.9	2.0	3.0
12	-----	2.4	1.6	2.5	0.7	1.0	0.9	1.7	0.3	0.9	2.0	2.9
13	-----	2.0	1.4	4.0	0.6	1.0	0.8	1.7	0.3	3.8	2.0	2.8
14	-----	2.0	1.1	6.0	0.5	1.0	0.8	1.7	0.3	4.9	2.0	2.7
15	-----	1.9	0.9	5.0	0.5	1.0	0.8	1.7	0.3	5.0	2.0	2.5
16	-----	1.7	0.9	4.0	0.5	1.0	1.0	1.5	0.3	4.0	2.0	2.5
17	-----	1.3	0.9	3.6	0.5	1.4	3.0	1.3	0.3	3.0	2.0	2.4
18	-----	1.0	0.9	3.0	0.5	2.2	2.5	1.2	0.3	2.0	1.9	2.3
19	-----	-----	0.9	2.8	0.5	2.2	2.2	1.0	0.3	1.6	1.9	2.2
20	-----	-----	0.9	2.6	0.5	2.2	2.1	0.8	1.7	1.6	1.8	2.0
21	-----	-----	0.9	2.6	0.5	2.0	2.1	0.7	1.7	1.6	1.8	1.9
22	-----	-----	0.9	3.0	0.5	2.0	2.0	0.5	1.4	1.3	1.8	1.8
23	-----	-----	0.9	3.0	0.5	2.0	2.0	0.5	1.0	1.2	1.8	1.7
24	-----	-----	0.9	3.0	0.5	1.9	2.0	0.5	0.8	1.2	1.8	1.6
25	-----	-----	0.9	3.0	0.5	5.8	3.0	0.5	0.7	1.0	2.0	Frozen.
26	-----	-----	0.9	2.9	0.5	5.0	3.0	0.4	0.6	0.9	2.0	-----
27	-----	-----	3.0	2.7	0.5	4.0	3.0	0.3	0.6	0.9	2.0	-----
28	-----	1.0	4.0	2.5	0.5	3.0	3.0	0.3	0.6	0.8	2.0	-----
29	-----	1.0	5.0	2.5	0.5	2.4	5.0	0.3	0.6	0.8	2.4	-----
30	-----	-----	10.5	2.3	0.5	2.0	6.0	0.3	3.0	0.7	2.4	1.6
31	-----	-----	10.9	-----	0.5	-----	5.5	0.3	-----	0.7	-----	1.6

1897.

1	1.6	Frozen.	2.5	1.7	0.7	0.5	0.5	2.4	1.0	1.7	0.4	2.4
2	1.6	-----	2.0	1.5	0.7	0.5	0.5	2.2	1.0	1.7	0.7	2.1
3	1.6	-----	2.0	1.1	7.7	0.5	0.5	2.0	1.0	1.6	1.2	1.8
4	1.6	-----	3.0	1.0	7.4	0.5	0.5	1.8	1.0	1.6	1.0	1.8
5	1.8	-----	5.0	1.0	6.1	0.7	0.5	1.8	1.0	1.5	0.8	2.2
6	2.0	-----	7.0	1.0	5.0	0.7	0.5	1.8	1.0	1.5	0.8	2.8
7	2.0	-----	8.5	1.0	4.0	0.7	0.5	1.6	1.0	1.4	0.7	2.8
8	1.9	-----	6.5	1.0	3.0	0.7	0.5	1.5	0.9	1.4	0.7	2.6
9	1.8	-----	5.5	1.0	2.3	0.7	0.8	1.4	0.9	1.3	0.7	2.3
10	1.6	-----	5.0	7.4	1.9	0.8	0.8	1.4	0.8	1.3	0.7	2.2
11	1.4	-----	5.5	5.8	1.9	0.8	0.8	1.4	0.8	1.2	1.2	2.0
12	1.3	-----	6.0	4.5	1.9	0.8	0.8	1.4	0.7	1.2	1.5	2.0
13	1.2	-----	5.5	3.6	2.5	0.8	1.3	1.4	0.7	1.0	1.5	2.0
14	1.1	-----	5.5	3.2	3.3	0.7	1.3	1.4	0.6	1.0	1.5	2.0
15	1.1	-----	5.0	3.2	4.5	0.7	1.3	1.4	0.6	0.9	1.5	2.8
16	1.1	-----	4.7	5.6	3.9	0.7	1.1	1.4	0.6	0.8	1.5	5.1
17	1.1	-----	4.3	5.6	3.0	0.7	1.1	1.4	0.6	0.7	3.8	4.4
18	1.1	-----	4.3	4.5	2.4	0.7	1.1	1.4	0.6	0.6	3.0	4.2
19	1.1	4.0	3.9	3.7	2.0	0.7	1.1	1.4	0.6	0.6	2.7	3.9
20	1.1	4.0	4.3	3.1	1.6	0.7	1.5	1.4	0.6	0.5	2.4	3.4
21	1.1	4.0	6.0	2.5	1.5	0.7	2.0	1.3	0.6	0.5	2.2	3.1
22	1.1	4.0	6.0	2.0	1.3	0.7	2.3	1.3	0.6	0.5	2.0	2.9
23	1.1	5.0	6.0	1.7	1.0	0.6	2.6	1.3	0.6	0.5	2.0	2.7
24	Frozen.	7.0	6.2	1.5	0.8	0.6	2.8	1.3	0.6	0.5	2.0	2.5
25	-----	6.4	7.7	1.3	0.8	0.9	2.8	1.3	1.8	0.5	2.0	2.4
26	-----	5.2	6.3	1.3	1.1	0.7	2.8	1.3	2.0	0.4	2.0	2.4
27	-----	4.0	4.9	1.3	1.1	0.7	2.8	1.3	2.0	0.4	2.5	2.3
28	-----	3.0	3.9	1.1	0.9	0.7	3.0	1.2	1.9	0.4	3.8	2.1
29	-----	-----	3.0	0.9	0.7	0.6	3.0	1.1	1.8	0.4	3.3	1.9
30	-----	-----	2.4	0.7	0.6	0.6	2.8	1.1	1.7	0.4	2.8	1.9
31	-----	-----	2.0	-----	0.5	-----	2.6	1.0	-----	0.4	-----	1.8

DAILY RIVER STAGES.

425

Susquehanna River system—West Branch of Susquehanna River, Keating, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.8	1.5	2.2	5.3	2.6	1.4	1.4	0.7	1.0	0.3	1.6	1.6
2	1.6	Frozen.	2.2	4.2	2.6	1.2	1.2	0.6	1.0	0.2	1.6	1.6
3	1.6		2.2	3.5	2.6	1.1	1.1	0.6	1.0	0.2	1.5	1.6
4	1.6		2.2	3.0	2.6	1.0	1.0	0.6	1.0	0.2	1.5	1.6
5	1.6		2.1	2.7	2.5	1.0	0.9	0.8	0.9	0.2	1.5	1.6
6	1.6		2.0	2.4	2.5	0.9	0.8	0.8	0.9	1.2	1.5	1.6
7	1.6		1.9	2.2	2.5	0.8	0.8	0.8	0.9	1.0	1.5	1.6
8	1.6		1.8	2.0	2.5	0.7	0.7	0.8	0.9	1.0	1.5	1.6
9	1.6		1.8	1.8	2.7	0.7	0.7	1.0	0.9	1.0	1.5	1.6
10	1.6	1.7	1.8	1.6	3.4	0.7	0.7	1.0	0.9	1.0	1.5	1.6
11	2.0	1.9	1.8	1.4	3.4	0.6	0.7	1.0	0.9	1.0	6.5	Frozen.
12	2.5	2.8	2.9	1.3	3.4	0.8	0.7	1.0	0.8	1.0	6.0	
13	3.5	5.0	4.9	1.2	3.3	1.1	0.7	1.0	0.8	1.0	5.0	
14	8.0	4.8	4.9	1.2	3.1	3.3	0.6	1.0	0.7	1.0		
15	5.9	3.9	4.6	1.2	3.0	3.0	0.6	1.0	0.7	1.0	4.0	
16	6.3	3.2	4.2	1.2	2.8	2.7	0.6	1.0	0.6	1.0	3.4	
17	5.6	3.0	3.8	1.6	2.6	2.0	0.6	1.3	0.6	1.0	3.0	
18	4.7	2.8	3.4	1.6	3.8		0.6	2.4	0.5	1.0	2.6	
19	3.8	2.6	3.4	1.6	3.0	1.4	0.6	4.9	0.5	1.0	2.2	
20	3.8	2.6	7.3	1.6	3.0	1.1	0.6	3.8	0.5	1.0	2.2	
21	4.3	2.6	7.3	1.6	3.6	0.9	0.6	2.9	0.4	1.0	2.0	
22	4.3	2.6	7.7	1.6	3.6	0.8	0.6	2.3	0.4	5.0	2.0	3.0
23	5.0	2.6	16.2	1.6	3.6	0.7	0.6	1.9	0.4	6.5	1.9	5.8
24	7.9	2.6	16.2	1.9	4.3	0.6	0.6	1.6	0.4	6.0	1.9	6.3
25	6.0	2.6	9.4	5.4	5.0	0.6	0.6	1.3	0.4	5.0	1.7	6.1
26	4.7	2.5	5.9	4.8	4.6	0.6	1.9	1.3	0.3	4.2	1.7	5.1
27	4.0	2.4	3.9	3.7	4.1	0.6	1.3	1.3	0.3	3.5	1.7	4.0
28	3.1	2.2	3.0	3.0	3.4	0.9	1.0	1.2	0.3	3.0	1.6	3.0
29	2.4		3.6	2.8	2.9	2.3	0.8	1.1	0.3	2.6	1.6	2.4
30	1.8		9.7	2.6	2.1	1.7	0.7	1.0	0.3	2.2	1.6	2.0
31	1.5		6.8		1.7		0.7	1.0		1.8		1.7

1899.

1	2.7	1.3	5.5	4.0	1.6	1.6	1.3	1.3	1.2	1.4	1.4	2.4
2	3.7	1.1	5.0	3.6	1.6	1.6	1.3	1.3	1.6	1.4	2.0	2.4
3	3.7	1.1	4.5	3.0	1.6	1.6	1.3	1.3	1.6	1.4	3.0	2.4
4	3.7	1.1	5.5	2.7	1.6	1.6	1.3	1.3	1.6	1.4	3.6	2.4
5	3.7	1.1	7.0	2.7	1.6	1.5	1.3	1.3	1.6	1.4	3.6	2.4
6	5.0	1.1	8.8	2.5	1.6	1.5	1.3	1.2	1.6	1.4	3.4	2.4
7	4.2	1.1	7.0	2.2	1.6	1.5	1.3	1.2	1.6	1.4	3.3	2.4
8	3.4	Frozen.	5.0	3.3	1.6	1.4	1.3	1.2	1.6	1.4	3.3	2.4
9	3.0		5.0	3.0	1.6	1.4	1.3	1.1	1.6	1.4	3.3	2.4
10	2.5			2.7	1.9	1.3	1.3	1.1	1.5	1.4	3.3	2.4
11	2.0			2.2	1.9	1.3	1.3	1.1	1.5	1.4	3.3	2.4
12	Frozen.			2.2	1.8	1.3	1.3	1.1	1.5	1.4	3.3	3.0
13				3.5	1.6	1.3	1.3	1.0	1.5	1.4	3.3	5.0
14				3.5	1.4	1.2	1.3	1.0	1.5	1.4	3.3	4.0
15				3.3	1.3	1.2	1.3	1.0	1.5	1.4	3.3	4.0
16				3.3	1.3	1.2	1.3	1.0	1.5	1.4	3.3	4.0
17	2.0			3.3	1.8	1.2	1.6	1.0	1.5	1.4	3.8	3.8
18	2.3			3.1	6.7	1.2	1.8	1.0	1.5	1.4	4.4	3.6
19	2.6			3.0	6.4	1.1	1.8	1.0	1.5	1.4	4.4	3.4
20	2.6		6.0	2.8	5.6	1.1	1.8	1.0	1.5	1.4	4.4	3.2
21	2.4		4.7	2.6	4.6	1.1	1.7	1.0	1.4	1.4	4.4	3.1
22	2.0		4.2	2.4	4.0	1.1	1.6	1.0	1.4	1.4	4.2	3.0
23	1.9		3.9	2.2	3.6	1.1	1.6	1.0	1.4	1.4	4.0	2.9
24	1.9	5.0	3.6	2.0	3.0	1.1	1.5	1.0	1.4	1.4	3.7	2.9
25	2.8	4.0	3.0	1.9	2.5	1.3	1.5	1.0	1.4	1.4	3.4	2.9
26	2.8	3.0	2.7	1.9	2.0	1.5	1.5	1.0	1.4	1.4	3.2	2.9
27	2.6	3.5	3.0	1.8	1.7	1.4	1.4	1.0	1.4	1.4	3.0	2.9
28	2.4	5.5	3.4	1.7	1.7	1.3	1.4	1.3	1.4	1.4	2.8	2.9
29	2.0		4.0	1.7	1.7	1.3	1.4	1.3	1.4	1.4	2.6	Frozen.
30	1.6		5.0	1.6	1.6	1.3	1.3	1.3	1.4	1.4	2.4	
31	1.3		4.5		1.6		1.3	1.2		1.4		

*Susquehanna River system.—West Branch of Susquehanna River, Renova, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.7	Frozen.	4.3	9.0	2.6	1.4	2.0	4.2	0.8	6.3	1.5	3.1
2	3.4	-----	3.8	7.8	2.0	1.4	1.8	4.8	0.8	4.8	1.5	2.8
3	3.0	4.0	3.4	7.1	2.0	1.2	1.5	5.0	0.6	3.3	1.5	2.7
4	3.0	3.7	3.4	6.0	1.8	1.2	1.2	4.4	0.4	3.0	1.4	2.6
5	3.0	3.3	3.0	5.0	1.6	1.2	1.2	3.5	0.4	2.6	1.3	2.6
6	Frozen.	3.3	3.0	4.3	1.6	1.2	1.2	3.0	0.4	2.0	3.7	2.3
7	-----	6.0	2.6	3.8	1.6	1.2	1.2	2.2	0.2	1.9	4.4	2.0
8	-----	5.3	2.6	3.8	1.6	1.7	1.0	2.0	0.2	1.9	3.5	1.9
9	-----	4.6	2.4	3.2	1.6	2.0	1.0	2.0	0.2	1.7	3.1	2.3
10	-----	4.3	2.4	3.2	1.4	2.7	1.4	1.8	0.2	1.5	2.9	3.8
11	-----	3.5	2.0	3.6	1.0	3.0	1.4	1.8	0.0	1.2	2.6	4.1
12	-----	3.0	2.0	3.6	1.0	2.7	1.2	1.8	0.0	1.2	2.6	3.4
13	-----	2.7	1.6	5.0	1.0	2.5	1.0	1.8	0.3	5.0	2.9	3.2
14	-----	2.7	Frozen.	6.0	0.8	2.5	1.0	1.8	0.1	5.5	2.8	3.0
15	-----	3.7	-----	5.6	0.8	2.5	1.0	1.5	0.1	5.9	2.8	3.0
16	-----	3.7	-----	5.0	1.2	3.2	1.0	1.3	0.1	5.0	2.6	2.5
17	-----	3.7	-----	4.0	1.0	3.0	2.0	1.2	0.1	4.4	2.4	2.3
18	-----	3.7	1.6	3.5	1.0	3.0	2.0	1.0	0.1	3.4	2.1	2.1
19	-----	3.4	1.6	3.5	1.0	3.0	1.6	1.0	0.1	3.0	2.0	2.0
20	-----	3.0	1.8	3.0	1.0	3.0	1.0	0.8	1.8	2.7	1.9	2.0
21	-----	Frozen.	1.2	3.3	0.8	2.7	0.8	0.8	1.1	2.5	1.7	1.8
22	-----	-----	1.6	3.6	1.0	2.7	0.8	0.8	1.1	2.5	1.7	1.8
23	-----	-----	3.0	3.6	0.8	2.7	2.0	0.8	1.1	2.5	2.0	1.8
24	-----	-----	3.0	3.2	0.8	6.7	2.0	0.8	0.8	2.3	2.2	Frozen.
25	-----	-----	3.0	3.2	0.8	5.5	2.5	0.8	0.5	2.0	2.2	-----
26	-----	-----	3.7	3.4	0.8	4.5	3.2	0.8	0.3	2.0	2.2	-----
27	-----	-----	4.0	3.4	0.8	3.7	2.8	0.8	0.0	2.0	2.2	-----
28	-----	-----	4.7	3.0	0.8	3.5	3.8	0.8	0.0	2.0	2.5	-----
29	-----	-----	5.0	3.0	1.0	3.0	4.5	0.8	0.0	1.7	3.0	-----
30	-----	-----	9.0	2.6	1.0	2.4	5.2	0.8	1.7	1.5	3.2	-----
31	-----	-----	10.4	-----	1.4	-----	5.0	0.8	-----	1.5	-----	-----

1897.

1	Frozen.	Frozen.	2.5	3.0	1.7	1.0	0.4	2.5	0.0	0.0	-0.4	3.0
2	-----	-----	2.5	2.7	2.0	1.0	0.2	2.0	0.0	0.0	-0.4	2.6
3	-----	-----	3.3	2.4	6.4	0.8	0.2	1.6	0.0	0.0	1.6	2.2
4	-----	-----	5.0	2.2	6.6	1.0	0.2	1.3	0.0	-0.2	1.6	2.0
5	-----	-----	5.7	2.2	5.6	1.2	0.2	1.4	0.0	-0.2	1.2	2.6
6	3.0	-----	7.5	2.2	5.2	1.0	0.2	1.7	-0.1	-0.2	1.0	3.5
7	3.4	-----	8.5	2.8	4.8	0.8	0.2	1.4	-0.2	-0.2	0.6	3.8
8	2.6	-----	7.5	3.0	4.2	0.7	0.5	1.1	-0.2	-0.2	0.4	3.2
9	2.4	-----	5.5	3.2	3.6	1.0	0.7	1.0	-0.3	-0.3	0.4	2.9
10	2.0	-----	5.2	7.2	3.2	1.0	0.5	0.8	-0.3	-0.3	1.0	2.5
11	1.7	-----	6.0	6.3	3.0	0.9	0.2	1.4	-0.4	-0.3	2.2	2.2
12	1.5	-----	6.5	5.3	2.9	0.8	0.3	1.4	-0.4	-0.3	1.8	2.4
13	1.0	-----	6.7	4.8	3.3	0.7	1.4	1.2	-0.4	-0.3	1.6	2.8
14	Frozen.	-----	6.2	4.3	5.0	0.6	1.3	1.0	-0.4	-0.3	1.2	3.0
15	-----	-----	5.5	4.0	5.0	0.5	1.0	0.8	-0.4	-0.3	1.2	3.4
16	-----	-----	4.5	6.0	4.7	0.5	0.6	0.6	-0.5	-0.3	1.2	5.8
17	-----	-----	3.8	5.3	4.0	0.5	0.5	0.6	-0.4	-0.4	4.0	5.0
18	-----	-----	3.3	5.0	3.6	0.5	0.5	0.8	-0.3	-0.4	4.0	5.0
19	-----	-----	3.5	4.2	3.0	0.9	0.5	0.6	-0.3	-0.4	3.3	5.0
20	-----	-----	5.0	3.7	2.7	0.9	0.7	0.7	-0.2	-0.4	2.8	4.3
21	-----	-----	6.0	3.2	2.5	0.9	0.9	0.6	-0.2	-0.5	2.3	3.9
22	-----	-----	6.4	3.0	2.3	0.9	1.9	0.5	-0.2	-0.5	2.0	3.2
23	-----	5.0	5.7	2.7	2.0	0.7	1.6	0.3	-0.2	-0.3	1.8	3.2
24	-----	6.8	6.3	2.3	1.8	0.5	2.0	0.4	0.0	-0.2	1.5	2.8
25	-----	5.8	8.0	2.3	1.8	1.3	2.0	0.4	0.6	-0.2	1.2	2.5
26	-----	4.0	6.8	2.3	2.3	1.0	1.7	0.4	2.0	-0.2	1.1	2.5
27	-----	3.5	5.5	2.3	2.0	0.7	1.7	0.2	1.1	-0.3	3.0	2.3
28	-----	3.1	4.6	2.0	1.8	0.6	3.5	0.2	0.6	-0.3	4.5	2.0
29	-----	-----	4.0	1.9	1.5	0.5	3.9	0.2	0.3	-0.4	4.1	2.0
30	-----	-----	3.5	1.7	1.3	0.5	3.4	0.1	0.2	-0.4	3.1	2.0
31	-----	-----	3.1	-----	1.2	-----	3.5	0.0	-----	-0.4	-----	2.0

DAILY RIVER STAGES.

427

Susquehanna River system—West Branch of Susquehanna River, Renova, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	2.6	2.0	6.0	2.2	2.2	1.2	0.5	0.5	-0.4	2.5	1.0
2		2.0	2.0	5.0	2.0	2.0	0.8	0.5	0.2	-0.4	2.0	1.0
3		Frozen.	2.0	4.0	2.0	2.0	0.5	0.5	0.0	-0.4	1.5	1.0
4			2.0	3.6	2.2	1.8	0.3	0.5	0.0	-0.4	1.5	1.0
5			2.0	3.0	2.2	1.6	0.2	0.8	-0.1	-0.4	1.5	1.5
6			2.0	2.6	2.2	1.0	0.2	1.0	-0.1	0.2	1.0	1.5
7			2.0	2.6	2.2	1.0	0.1	0.6	-0.1	0.2	1.0	1.0
8			2.0	2.3	2.2	1.0	0.1	0.6	-0.1	0.2	0.8	Frozen.
9			2.0	2.3	3.0	1.0	0.1	0.5	-0.4	0.4	0.5	
10	2.0		2.5	2.3	2.4	1.0	0.1	0.5	-0.4	0.4	0.5	
11	2.2		2.5	2.3	2.2	1.0	0.1	0.4	-0.4	0.2	6.2	
12	2.2	3.8	4.5	2.1	2.2	0.8	0.0	0.7	-0.4	0.2	6.2	
13	5.0	6.0	6.0	1.9	2.0	1.4	0.0	0.7	-0.4	0.2	5.0	
14	8.0	5.3	6.4	1.8	2.0	2.6	-0.2	0.7	-0.4	0.2	4.2	
15	6.0	4.8	5.0	1.8	2.0	3.0	-0.2	0.5	-0.4	0.2	3.6	
16	6.0	4.2	4.2	2.0	2.0	2.0	-0.2	0.3	-0.5	0.4	3.0	
17	6.0	4.8	4.2	2.2	2.0	1.8	-0.2	0.3	-0.6	0.4	2.8	
18	5.0	3.5	4.0	2.3	3.5	1.6	-0.3	0.3	-0.7	0.4	2.5	
19	4.5	2.5	3.4	2.0	2.8	1.2	-0.3	5.0	-0.7	1.0	2.2	
20	4.0	2.0	8.0	2.0	2.8	1.2	-0.3	4.4	-0.7	2.5	2.0	
21	4.0	3.0	7.5	2.0	3.0	1.2	0.0	3.0	-0.8	3.0	2.0	
22	4.4	4.0	7.5	2.0	3.0	1.2	0.2	2.5	-0.8	5.5	1.8	4.7
23	4.7	4.0	13.6	1.7	3.5	1.0	0.1	2.0	-0.8	7.0	1.8	5.7
24	8.0	3.2	14.0	2.3	4.0	0.8	0.0	1.5	-0.8	5.0	1.5	6.7
25	7.0	3.0	9.0	5.8	4.5	0.5	-0.1	1.1	-0.8	4.0	1.3	5.6
26	5.0	2.7	7.0	5.0	4.2	0.5	2.0	1.1	-0.6	3.0	1.0	5.0
27	4.3	2.5	5.5	4.2	4.0	0.5	1.4	1.0	-0.6	4.0	1.0	4.6
28	4.3	2.0	5.0	4.0	3.6	1.0	0.9	1.0	-0.6	4.0	1.0	4.0
29	3.6		4.7	3.6	3.0	2.3	0.9	0.7	-0.6	3.7	1.0	3.6
30	3.3		10.0	3.2	2.8	1.8	0.8	0.7	-0.6	3.0	1.0	3.0
31	3.0		6.5		2.8		0.8	0.5		2.5		4.0

1899.

1	5.0	Frozen.	5.2	5.0	1.7	1.8	0.5	0.0	0.4		0.2	1.0
2	4.6		5.2	4.5	1.6	1.8	0.3	-0.2	0.4		2.0	1.2
3	4.0		5.3	4.0	1.6	1.8	0.2	-0.3	0.5		2.8	1.6
4	3.6		5.3	3.8	2.2	1.6	0.1	-0.3	0.6		2.4	1.8
5	4.0		7.3	3.5	2.0	1.5	0.0	-0.3	0.2		2.0	2.0
6	5.3		9.0	3.0	1.8	1.4	0.0	-0.3	0.2		2.8	2.0
7	5.0		7.0	3.0	1.5	1.3	0.0	0.0	0.0		2.5	Frozen.
8	4.0		5.3	4.0	1.5	1.2	0.0	0.0	0.0		2.2	
9	3.6		4.8	5.8	2.0	1.0	0.0	0.0	0.0		2.2	1.8
10	3.0		4.3	4.3	2.2	1.0	0.0	0.0	0.0		2.0	1.8
11	3.0		3.9	3.8	2.2	0.7	0.0	0.0	0.0		1.8	1.8
12	3.0		3.9	3.8	2.2	0.5	0.0	0.0	0.0		1.2	2.0
13	3.0		4.3	4.6	2.0	0.2	0.0	0.0	0.2		1.7	5.0
14	4.0		4.3	4.6	1.9	0.0	0.0	0.0	0.2		1.7	4.5
15	4.0		4.3	4.6	1.9	0.0	0.0	0.0	0.2		1.9	4.2
16	4.8		4.3	4.0	1.9	0.0	0.0	-0.3	0.2		2.2	4.0
17	4.8		4.3	3.8	2.2	0.0	0.1	-0.3	0.2		2.2	3.5
18	4.4		4.0	3.6	4.0	0.0	0.8	-0.4	0.0		2.2	3.0
19	4.4		4.8	3.4	7.0	0.0	1.0	-0.5	-0.2		2.2	3.0
20	4.4		6.2	3.0	5.2	0.0	1.8	-0.6	-0.2		2.2	4.0
21	4.5		5.5	2.8	4.2	0.0	1.5	-0.6	-0.2		2.0	4.0
22	3.8		4.4	2.5	3.8	0.0	1.2	-0.6	-0.2		2.0	3.5
23	3.0	5.6	4.4	2.5	3.5	0.0	1.0	-0.6	-0.2		2.0	2.8
24	2.2	6.0	4.2	2.3	3.0	0.0	0.8	-0.6	-0.2		2.0	2.5
25	2.6	4.0	4.2	2.0	2.6	0.0	0.6	-0.6	-0.2		1.8	3.0
26	3.0	3.0	4.2	2.0	2.2	1.0	0.2	-0.6	-0.2		1.8	3.0
27	3.0	5.0	4.2	2.0	2.0	0.5	0.0	-0.6	0.0		1.6	3.0
28	Frozen.	6.0	4.2	2.0	1.8	0.5	0.0	0.0	0.0		1.5	Frozen.
29			4.6	1.7	1.8	0.5	0.0	0.2	0.0		1.3	
30			6.0	1.5	2.0	0.5	0.0	0.3	0.0		1.2	
31			5.5		2.0		0.0	0.4				

DAILY RIVER STAGES.

*Susquehanna River system—West Branch of Susquehanna River, Farrandsville, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	8.7	2.0	1.5	2.8	5.0	0.5	6.0	1.8	Frozen.
2				7.4	1.8	1.5	2.5	5.0	0.5	4.8	1.8	
3				6.5	1.8	1.3	2.4	5.0	0.3	3.8	1.7	
4				6.1	1.8	1.3	2.3	4.4	0.3	3.0	1.6	
5				5.0	1.7	1.3	2.2	3.6	0.3	2.8	2.3	
6				4.5	1.7	1.3	2.2	2.8	0.3	2.5	4.0	
7				4.0	1.7	1.5	2.0	2.5	0.3	2.3	4.5	
8				4.0	1.7	1.7	1.8	2.3	0.7	2.0	4.0	
9				3.7	1.7	2.2	2.0	2.2	0.5	1.8	3.5	
10				3.5	1.7	3.1	2.0	2.0	0.5	1.8	3.0	
11				3.7	1.7	3.0	1.8	2.0	0.3	2.0	3.0	
12				5.0	1.6	2.7	1.5	1.8	0.3	2.0	3.0	
13				5.5	1.6	2.3	1.3	1.7	0.3	5.7	3.0	
14				6.0	1.5	2.0	1.3	1.7	0.7	5.8	2.8	
15				5.7	1.5	1.7	1.3	1.8	0.7	6.0	2.8	
16				5.5	1.5	1.5	2.0	1.7	0.8	5.0	2.7	
17				5.4	1.5	2.0	2.5	1.5	0.9	4.0	2.6	
18				4.7	1.4	3.3	2.3	1.3	0.9	3.8	2.5	
19				4.5	1.4	3.0	2.0	1.5	0.9	3.3	2.5	
20				3.8	1.3	2.7	1.5	1.3	1.0	3.0	2.5	
21				3.7	1.3	2.3	1.2	1.2	1.8	2.8	2.4	
22				3.7	1.3	2.2	1.2	1.0	1.5	2.7	2.4	
23				3.7	1.3	2.0	1.4	1.0	1.3	2.7	2.3	
24				3.7	1.3	1.8	2.0	1.0	1.0	2.6	2.3	
25				3.5	1.3	6.5	3.0	1.0	1.0	2.6	2.2	
26				3.4	1.3	5.8	3.6	0.8	0.8	2.5	2.3	
27				3.2	1.3	5.2	3.7	0.8	0.7	2.5	2.4	
28				3.0	1.2	4.2	3.9	0.7	0.7	2.3	2.5	
29				2.8	1.2	3.7	4.5	0.7	0.7	2.2	3.2	
30				2.7	1.2	3.0	5.0	0.5	1.3	2.0	3.5	
31					1.2		5.0	0.5		2.0		

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	3.0	1.8	1.6	0.5	2.5	0.5	0.9	0.3	3.0
2				2.7	2.0	1.5	0.5	2.2	0.5	0.9	1.2	2.7
3				2.4	6.5	1.4	0.5	2.0	0.5	0.8	2.3	2.5
4				5.0	2.3	6.2	1.4	0.5	1.8	0.5	0.8	2.2
5				5.5	2.2	5.5	1.4	0.5	1.7	0.5	0.7	2.0
6				7.2	2.2	5.0	1.2	0.5	2.0	0.4	0.7	1.9
7				8.0	2.5	4.3	1.2	0.4	1.8	0.4	0.6	1.5
8				7.0	2.8	4.0	1.1	1.2	1.6	0.4	0.6	1.4
9				6.5	3.2	3.5	1.1	0.9	1.4	0.4	0.6	1.3
10				6.2	7.2	3.2	1.2	0.7	1.2	0.3	0.5	1.3
11				6.4	6.2	3.0	1.2	0.6	1.4	0.3	0.5	3.0
12				6.7	5.0	2.9	1.1	0.9	1.4	0.3	0.5	2.5
13				6.7	4.3	4.0	1.1	1.2	1.3	0.3	0.6	2.0
14				5.8	3.8	5.0	1.0	1.5	1.2	0.3	0.6	2.0
15				5.2	4.0	5.2	1.0	1.4	1.2	0.3	0.6	1.9
16				4.6	5.6	4.3	0.9	1.2	1.0	0.3	0.5	1.9
17				4.0	5.5	4.0	0.9	1.0	1.0	0.3	0.5	3.6
18				3.8	5.0	3.5	0.8	0.9	1.0	0.3	0.4	4.0
19				3.6	4.2	3.2	0.8	0.9	1.2	0.3	0.4	4.8
20				4.2	4.0	2.9	0.8	0.9	1.0	0.3	0.4	4.4
21				6.0	3.6	2.7	1.0	1.0	1.0	0.3	0.4	3.0
22				6.2	3.0	2.3	1.0	2.2	0.9	0.3	0.4	2.6
23				5.8	2.8	2.2	0.9	2.2	0.8	0.3	0.3	3.8
24				6.5	2.5	2.1	0.9	2.5	0.8	0.4	0.3	3.5
25				7.5	2.3	2.0	0.9	2.5	0.8	1.0	0.3	3.3
26				6.4	2.2	2.5	1.5	2.0	0.7	1.9	0.3	Frozen.
27				5.5	2.0	2.2	1.4	2.0	0.7	2.0	0.3	2.0
28				4.7	2.0	2.0	1.2	3.5	0.7	1.4	0.2	2.0
29				4.0	2.0	1.9	1.0	4.0	0.6	1.2	0.2	4.3
30				3.7	1.8	1.7	0.9	3.7	0.6	1.0	0.2	4.0
31				3.6		1.5		2.9	0.5	0.2	3.5	

DAILY RIVER STAGES.

429

Susquehanna River system—West Branch of Susquehanna River, Farrandville, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	2.4	5.7	2.8	2.4	1.1	1.0	0.8	0.2	2.4	Frozen.
2			2.3	4.8	2.6	2.0	1.0	0.8	0.8	0.2	2.2	1.4
3			2.3	4.4	2.5	2.0	1.0	0.8	0.7	0.2	2.2	1.3
4			2.2	4.0	2.5	1.8	1.0	1.0	0.7	0.2	2.1	1.3
5			2.0	3.5	2.2	1.7	0.9	1.4	0.6	0.2	2.0	1.3
6			2.0	3.0	2.4	1.5	0.9	1.5	0.6	0.5	2.0	1.2
7			2.0	2.7	3.0	1.3	0.9	1.2	0.7	1.2	2.0	1.0
8			2.2	2.5	2.8	1.2	0.8	1.0	0.7	1.0	1.8	Frozen.
9			2.4	2.2	3.0	1.2	0.7	1.0	0.8	1.2	1.7	
10			2.8	2.2	3.2	1.1	0.6	1.0	0.7	1.2	1.8	
11			3.0	2.0	2.7	1.0	0.5	0.8	0.7	1.0	6.2	
12			4.5	1.8	2.6	1.0	0.5	0.8	0.6	1.0	6.4	
13			6.0	1.8	2.4	2.0	0.5	1.4	0.6	1.0	5.0	
14	8.0	5.6	6.3	1.6	2.2	2.5	0.5	1.3	0.6	1.2	4.0	
15	6.4	4.6	5.0	1.8	2.0	3.0	0.4	1.0	0.6	1.2	3.6	
16	6.0	4.0	4.2	2.0	2.4	2.6	0.4	0.9	0.5	1.1	3.0	
17	5.9	3.8	4.2	2.4	2.8	2.0	0.4	0.8	0.5	1.0	2.7	
18	5.0	3.2	4.0	2.2	3.5	2.0	0.4	0.8	0.5	1.0	2.6	
19	4.4	3.0	3.5	2.2	3.0	1.8	0.4	4.6	0.4	1.0	2.5	
20	4.0	3.0	7.5	2.0	3.0	1.4	0.3	4.0	0.4	2.2	2.3	
21	4.2	3.0	7.4	2.0	3.2	1.4	0.7	3.5	0.3	2.4	2.0	
22	4.8	3.5	7.4	1.8	3.7	1.3	0.5	3.0	0.3	5.4	2.0	
23	5.6	3.2	16.0	1.7	3.4	1.0	0.5	2.4	0.4	6.7	1.8	5.8
24	7.5	3.0	13.6	3.0	4.0	1.0	0.5	2.0	0.4	5.0	1.7	7.0
25	6.0	3.0	8.7	5.0	4.4	0.8	0.5	1.7	0.3	4.0	1.6	5.8
26	5.2	2.8	6.5	5.5	4.2	0.8	2.6	1.5	0.3	3.4	1.5	5.0
27	4.5	2.5	5.6	4.6	4.0	0.7	2.0	1.4	0.3	4.0	Frozen.	3.8
28	4.0	2.4	4.3	4.0	3.8	1.0	1.3	1.2	0.3	4.0		3.2
29	3.2		4.4	3.5	3.5	2.4	1.0	1.0	0.2	3.5		2.6
30			9.0	3.0	3.2	2.0	1.0	0.8	0.2	3.0		2.5
31			7.5		3.0		1.2	0.8		2.5		2.4

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	4.8	1.3	1.7	0.7	0.3	0.7	0.4		
2				4.0	1.2	1.5	0.7	0.4	0.5	0.4		
3				3.8	1.4	1.4	0.6	0.4	0.7	0.4		
4				3.4	1.3	1.2	0.6	0.4	1.0	0.4		
5			8.0	3.0	1.4	1.0	0.6	0.3	0.8	0.3		
6			8.3	2.8	1.4	1.0	0.5	0.4	0.7	0.3		
7			6.8	3.0	1.3	1.0	0.5	0.6	0.7	0.3		
8			6.0	4.0	1.2	0.9	0.4	0.7	0.5	0.2		
9			5.6	5.7	1.4	0.8	0.4	0.6	0.4	0.2		
10			4.7	4.6	1.4	0.7	0.4	0.6	0.3	0.2		
11			4.0	4.0	1.7	0.6	0.3	0.4	0.3	0.2		
12			3.7	3.7	1.6	0.6	0.3	0.3	0.5	0.3		
13			5.0	4.2	1.5	0.5	0.3	0.3	0.4	0.5		
14			4.3	4.3	1.4	0.5	0.2	0.3	0.5	0.5		
15			3.7	4.0	1.3	0.4	0.2	0.3	0.6	0.5		
16			3.8	3.7	1.3	0.4	0.3	0.3	0.5	0.4		
17			3.8	3.4	3.7	0.3	0.4	0.2	0.5	0.4		
18			3.4	3.0	6.6	0.3	0.7	0.2	0.4	0.4		
19			4.5	2.7	5.5	0.3	1.0	0.1	0.4	0.3		
20			6.2	2.4	4.5	0.3	2.0	0.1	0.3	0.3		
21			5.5	2.3	3.8	0.3	1.7	0.1	0.3	0.3		
22			4.7	2.0	3.0	0.3	1.4	0.0	0.3	0.3		
23			4.3	2.0	2.5	0.2	0.8	-0.1	0.3	0.2		
24			4.0	2.0	2.3	0.2	0.5	-0.2	0.6	0.2		
25			3.7	1.8	2.0	0.4	0.3	-0.2	0.6	0.2		
26			3.2	1.7	1.8	0.7	0.2	0.0	0.6	0.1		
27			3.0	1.7	1.7	0.7	0.4	0.2	0.5	0.1		
28			3.6	1.6	1.6	0.6	0.8	0.3	0.5	0.1		
29			4.5	1.6	1.6	0.7	0.7	0.8	0.5	0.1		
30			6.0	1.4	1.4	0.8	0.4	1.0	0.4	0.1		
31			5.5		1.8		0.3	0.8		0.1		

DAILY RIVER STAGES.

Susquehanna River system—West Branch of Susquehanna River, Lockhaven, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-----	1.5	3.0	6.0	1.8	1.5	1.5	1.8	0.5	4.0	1.3	2.0
2	-----	1.5	3.0	5.0	1.5	1.5	1.3	2.8	0.5	3.5	1.3	2.0
3	-----	2.5	3.0	4.5	1.5	1.3	1.0	3.5	0.5	3.0	1.0	1.8
4	-----	2.5	2.5	4.0	1.5	1.0	0.8	3.0	0.5	2.5	1.0	1.8
5	-----	2.5	2.5	3.0	1.5	1.0	0.8	2.8	0.5	2.0	1.5	1.8
6	-----	2.0	2.3	2.8	1.3	0.8	0.8	2.0	0.5	1.5	2.5	1.8
7	-----	7.5	2.0	2.5	1.3	1.0	0.8	1.5	0.5	1.5	3.0	1.5
8	-----	4.0	2.0	2.5	1.0	1.0	1.0	1.3	0.8	1.5	2.8	1.5
9	-----	3.5	1.8	2.3	1.0	1.5	1.0	1.3	0.8	1.3	2.5	1.5
10	-----	3.0	1.8	2.3	1.0	2.0	1.0	1.3	0.8	1.3	2.5	2.3
11	-----	2.5	1.8	2.3	1.0	1.8	1.0	1.0	0.8	1.0	2.5	3.0
12	-----	2.0	1.8	2.3	1.0	1.5	1.0	1.0	0.8	1.0	2.5	2.5
13	-----	1.5	1.8	3.0	0.8	1.3	0.8	1.0	0.8	4.0	2.5	2.3
14	-----	2.0	1.5	3.8	0.8	1.3	0.8	1.0	1.0	3.8	2.5	2.0
15	-----	2.5	1.5	3.3	0.8	1.3	0.8	1.0	1.0	4.3	1.8	2.0
16	1.5	2.5	1.5	3.3	0.8	1.3	1.0	1.0	1.0	3.5	1.8	1.8
17	1.5	2.5	1.5	3.0	0.8	1.3	1.3	0.8	1.0	3.0	1.5	1.5
18	1.3	2.0	1.5	2.5	0.8	2.3	1.3	0.8	1.0	2.8	1.5	1.5
19	1.3	1.8	1.5	2.3	0.8	2.0	0.8	0.8	1.0	2.5	1.5	1.3
20	1.3	1.8	1.8	2.3	0.8	1.8	0.8	0.5	1.5	2.0	1.5	1.3
21	1.3	1.5	2.0	2.0	0.8	1.5	0.8	0.5	1.5	2.0	1.5	1.0
22	1.3	1.5	2.0	2.3	0.8	1.3	1.0	0.3	1.5	2.0	1.5	1.0
23	1.3	1.5	2.0	2.5	0.5	1.3	1.0	0.3	1.3	2.0	1.3	1.0
24	1.3	1.5	2.0	2.3	0.5	1.3	1.5	0.3	1.3	2.0	1.3	1.0
25	1.5	1.5	2.0	2.0	0.5	4.3	2.0	0.3	1.3	1.8	1.3	1.0
26	1.5	1.5	2.3	2.0	0.5	3.3	2.3	0.5	1.3	1.5	1.3	1.0
27	1.5	1.5	2.5	2.0	0.8	3.0	2.0	0.5	1.3	1.5	1.3	0.8
28	1.5	1.3	3.0	2.0	0.8	2.5	2.5	0.5	1.3	1.5	1.5	0.8
29	1.5	1.3	3.5	2.0	1.0	2.0	2.8	0.5	1.0	1.5	2.0	0.5
30	1.5	-----	6.0	1.8	1.0	1.8	2.8	0.5	1.5	1.3	2.0	0.5
31	1.5	-----	7.0	-----	1.5	-----	2.5	0.5	-----	1.3	-----	0.5

1897.

1	1.0	0.5	1.5	1.8	1.3	1.0	0.5	1.5	0.8	0.3	0.0	1.5
2	1.0	0.5	1.5	1.5	2.3	1.0	0.5	1.3	0.8	0.3	0.2	1.3
3	1.0	0.5	1.8	1.5	3.5	0.8	0.5	1.3	0.8	0.2	0.6	1.2
4	1.3	0.5	4.0	1.5	4.5	0.8	0.5	1.0	0.8	0.1	1.0	0.9
5	1.5	0.5	3.8	1.3	4.0	0.8	0.3	1.0	0.5	0.0	0.9	1.0
6	1.5	0.5	3.5	1.3	3.5	0.8	0.3	1.3	0.5	0.0	0.4	1.6
7	1.8	0.7	5.5	1.3	3.0	0.5	0.3	1.0	0.5	0.0	0.2	1.9
8	2.0	1.0	4.0	2.0	2.5	0.5	0.3	1.0	0.3	0.0	0.0	1.5
9	1.8	1.5	3.8	2.0	2.3	0.5	0.5	0.8	0.3	0.0	0.0	1.4
10	1.8	1.5	3.3	4.0	2.0	0.8	0.5	0.5	0.0	0.0	0.0	0.6
11	1.5	1.5	4.0	3.8	2.0	0.8	0.5	1.0	0.0	0.0	0.4	1.0
12	1.5	1.3	4.3	3.5	2.0	0.5	0.5	1.5	0.0	0.0	0.9	1.3
13	1.3	1.0	4.3	3.0	2.3	0.5	0.8	1.3	0.0	0.0	0.6	1.4
14	1.0	1.0	4.0	2.5	3.0	0.5	0.8	1.0	0.0	0.0	0.5	1.3
15	0.8	1.0	3.5	2.5	3.3	0.5	0.8	0.8	0.0	0.0	0.4	1.6
16	0.8	1.3	3.0	3.5	3.0	0.3	0.8	0.8	0.0	0.0	0.3	3.0
17	0.8	1.3	2.8	3.5	2.5	0.3	0.8	0.8	0.0	0.0	0.5	3.0
18	1.3	1.3	2.3	3.3	2.3	0.3	0.8	0.8	0.0	0.0	2.0	2.8
19	1.0	1.3	2.0	2.8	2.0	0.3	0.8	0.8	0.0	0.0	1.6	2.6
20	1.0	1.5	2.5	2.5	1.8	0.3	0.8	0.5	0.1	0.0	1.2	2.3
21	1.0	2.0	4.0	2.3	1.5	0.3	1.0	0.5	0.1	0.0	1.0	2.0
22	1.0	2.0	4.0	2.0	1.5	0.3	1.0	0.5	0.1	0.0	0.9	1.8
23	0.8	3.5	3.5	1.8	1.5	0.3	1.0	0.5	0.0	0.0	0.7	1.5
24	0.8	4.5	4.0	1.5	1.5	0.8	1.5	1.0	0.3	0.0	0.7	0.9
25	0.8	3.8	5.0	1.5	1.5	0.8	1.5	0.8	0.8	0.0	0.6	0.6
26	0.8	2.8	4.5	1.5	1.5	0.8	1.8	0.8	1.0	0.0	0.6	0.4
27	0.5	2.5	3.8	1.5	1.5	0.8	1.8	0.8	0.9	0.0	2.8	0.4
28	0.5	1.8	3.0	1.3	1.3	0.8	2.0	0.8	0.7	0.0	2.5	0.4
29	0.5	-----	2.5	1.3	1.3	0.8	2.3	0.8	0.5	0.0	2.2	0.4
30	0.5	-----	2.3	1.3	1.0	0.5	2.0	0.8	0.3	0.0	1.8	0.4
31	0.5	-----	2.0	-----	1.0	-----	1.8	0.8	-----	0.0	-----	0.4

DAILY RIVER STAGES.

431

Susquehanna River system—West Branch of Susquehanna River, Lockhaven, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.2	Frozen.	1.0	3.5	1.4	1.1	0.5	0.3	0.2	-1.7	1.1	0.2
2	0.0	.....	0.9	2.8	1.2	1.0	0.3	0.3	0.2	-1.7	0.9	0.2
3	0.0	.....	0.9	2.4	1.2	0.8	0.0	0.3	0.4	-0.5	0.6	0.2
4	0.0	.....	0.9	2.0	1.0	0.7	-0.2	0.5	0.4	-0.5	0.5	0.3
5	0.0	.....	0.8	1.7	1.0	0.5	-0.7	0.7	0.3	-1.3	0.5	0.5
6	0.0	.....	0.7	1.4	1.0	0.5	-0.9	0.8	0.2	0.8	0.7	0.6
7	0.0	.....	0.4	1.4	1.2	0.5	-0.9	0.6	0.2	0.8	0.5	0.5
8	0.0	.....	0.4	1.2	1.2	0.4	-0.9	0.5	0.2	0.7	0.5	Frozen.
9	0.0	.....	0.5	1.1	1.8	0.4	-0.7	0.4	0.2	0.6	0.5	.....
10	0.0	.....	0.7	0.9	1.4	0.4	-0.9	0.4	0.4	0.8	0.5	.....
11	0.0	.....	1.5	0.9	1.2	0.3	-0.9	0.3	0.4	0.7	3.0	.....
12	0.5	.....	2.2	0.9	1.0	0.3	-0.9	0.3	0.2	0.7	3.7	.....
13	1.8	3.2	3.3	0.9	1.1	0.8	-0.7	0.5	0.2	0.6	3.0	.....
14	4.8	3.3	3.8	0.8	1.0	0.8	-0.7	0.4	0.2	0.6	1.9	.....
15	3.8	2.8	3.0	0.9	0.9	1.5	-0.9	0.3	0.1	0.6	1.9	.....
16	3.5	2.4	2.6	1.1	0.9	1.1	-0.9	0.3	0.1	0.6	1.6	.....
17	3.6	2.0	2.1	1.0	0.9	0.8	-0.9	0.3	0.0	0.5	1.4	.....
18	3.0	1.5	2.1	1.0	0.9	0.6	-0.9	0.4	0.0	0.5	1.2	.....
19	2.5	1.3	2.0	1.0	1.4	0.5	-0.9	2.4	0.0	0.8	1.0	.....
20	2.0	1.0	4.2	1.0	1.4	0.4	-0.9	2.5	-0.1	1.2	1.0	.....
21	2.1	1.4	4.9	0.9	1.5	0.4	-0.9	1.8	-0.1	1.2	0.9	.....
22	2.6	2.0	4.4	1.0	1.8	0.4	-0.8	1.5	-0.4	2.2	0.8	.....
23	2.6	2.0	7.6	1.0	1.8	0.2	-0.8	1.3	-0.4	4.2	0.7	2.6
24	4.6	1.7	9.2	1.0	1.8	0.1	-0.9	0.8	-0.6	3.4	0.8	3.8
25	3.8	1.6	6.0	3.4	2.3	0.0	-1.0	0.4	-0.8	2.2	0.7	3.5
26	3.0	1.4	4.1	3.4	2.3	0.0	1.0	0.4	-1.0	1.6	0.6	2.5
27	2.6	1.2	3.3	2.7	2.1	0.0	1.1	0.3	-1.0	1.8	0.5	2.3
28	2.3	1.1	2.7	2.2	1.8	0.0	0.8	0.2	-1.4	2.0	0.4	Frozen.
29	1.8	.....	2.3	2.0	1.8	0.0	0.5	0.2	-1.7	1.7	0.4	.....
30	1.3	.....	5.8	1.6	1.5	0.8	0.4	0.2	-1.7	1.5	0.3	.....
31	0.7	.....	4.8	.....	1.4	.....	0.4	0.2	.....	1.5	.....	.....

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	2.7	0.8	0.7	0.5	0.0	0.2	0.0	0.0	0.7
2	2.5	0.8	0.6	0.6	0.0	0.1	0.0	0.8	0.6
3	2.1	0.7	0.6	0.5	0.0	0.9	0.0	0.3	0.6
4	1.9	1.1	0.6	0.4	0.0	0.5	0.0	0.2	0.7
5	5.6	1.6	0.9	0.5	0.4	0.0	0.3	0.0	0.2	0.6
6	5.5	1.4	0.7	0.5	0.3	0.0	0.1	0.0	0.2	0.6
7	5.4	1.4	0.6	0.4	0.3	0.0	0.0	0.0	0.1	0.6
8	3.8	1.8	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.6
9	2.9	3.0	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.6
10	2.1	2.8	0.4	0.4	0.3	0.0	0.0	0.0	0.0	0.6
11	1.9	2.3	0.2	0.3	0.3	0.0	0.0	0.0	0.6	0.5
12	1.8	2.0	1.8	0.2	0.4	0.0	0.0	0.0	0.8	0.7
13	2.4	2.1	1.4	0.2	0.3	0.0	0.0	0.0	1.0	3.0
14	2.6	2.4	0.9	0.1	0.3	0.0	0.2	0.0	1.2	3.0
15	2.5	2.4	0.6	0.1	0.2	0.0	0.2	0.0	1.2	2.5
16	2.3	2.2	0.5	0.0	0.3	0.0	0.1	0.0	1.4	2.0
17	2.0	2.0	0.6	0.0	0.4	0.0	0.0	0.0	1.5	1.7
18	2.0	1.8	1.3	0.0	0.8	0.0	0.0	0.0	1.4	1.3
19	2.1	1.5	4.1	0.0	0.9	0.0	0.0	0.0	1.3	1.2
20	3.8	1.5	3.0	0.0	1.2	0.0	0.0	0.0	1.3	1.9
21	3.5	1.5	2.4	0.3	0.8	0.0	0.0	0.0	1.2	2.1
22	3.0	1.3	2.0	0.4	0.5	0.0	0.0	0.0	1.1	1.8
23	2.5	1.2	1.5	0.4	0.3	0.0	0.0	0.0	1.1	1.5
24	2.5	1.1	1.3	0.4	0.2	0.0	0.0	0.0	0.9	1.6
25	2.4	1.0	1.2	0.4	0.1	0.0	0.0	0.0	0.8	2.0
26	2.2	1.0	1.0	0.6	0.1	0.0	0.0	0.0	0.8	1.5
27	2.0	1.0	0.9	0.8	0.1	0.0	0.0	0.0	0.8	1.0
28	1.9	1.0	0.8	0.6	0.1	0.0	0.0	0.0	0.7	0.8
29	2.5	1.0	0.7	0.6	0.1	0.0	0.0	0.0	0.7	Frozen.
30	3.7	1.0	0.7	0.5	0.0	0.5	0.0	0.0	0.7	.....
31	3.0	.....	0.7	.....	0.0	0.5	.....	0.0	.....	.....

DAILY RIVER STAGES.

*Susquehanna River system—West Branch of Susquehanna River, Nisbet, Pa.***1896.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.6	Frozen.	6.0	10.9								
2	Frozen.		6.0	10.0								
3			4.0	9.8								
4			Frozen.	8.4								
5				8.2								
6				8.0								
7		8.0		6.0								
8		7.5	3.0	5.0								
9		5.0	2.6	5.0								
10		4.5	2.6	5.5								
11		3.5	2.6	5.6								
12		3.0	2.6	5.7								
13		3.0	2.0	5.9								
14		3.0	2.0	6.1								
15		Frozen.	2.0	6.4								
16			2.0	6.0								
17			2.0	5.0								
18			2.0	4.6								
19			2.0	4.0								
20			2.0	3.6								
21			2.0	3.0								
22			2.0	3.0								
23			2.0	3.0								
24			2.6	3.0								
25			2.9	3.0								
26			3.0	2.8								
27			3.0	2.7								
28			3.0	2.6								
29			5.0	2.4								
30			10.5	2.4								
31			11.3									

1897.

1												1.2
2												1.1
3												1.0
4												1.0
5												2.2
6												2.3
7											2.0	2.2
8											2.0	2.0
9											2.0	3.0
10											1.5	2.7
11											3.8	Frozen.
12											6.3	
13											5.7	
14											4.5	
15											3.8	
16											3.5	
17											2.8	
18											2.8	
19											2.8	
20											2.7	
21											2.6	
22											2.3	
23											2.3	
24											2.2	7.0
25											2.2	6.4
26											2.0	6.1
27											1.5	5.2
28											1.4	3.9
29											1.2	Frozen.
30											1.2	
31												

DAILY RIVER STAGES.

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Susquehanna River system—West Branch of Susquehanna River, Nisbet, Pa.—Continued.

1899.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	Frozen.	Frozen.	Frozen.	4.8	-----	1.9	2.0	1.4	1.9	1.5	1.8	2.5
2	-----	-----	6.3	4.2	-----	1.8	2.0	1.2	1.8	1.5	3.6	2.4
3	-----	-----	5.7	4.0	-----	1.7	1.8	1.2	1.7	1.4	3.5	2.0
4	-----	-----	5.3	3.9	-----	1.6	1.8	1.2	1.7	1.3	3.4	1.9
5	8.9	-----	8.5	3.0	-----	1.6	1.8	1.2	1.6	1.2	3.4	1.8
6	7.3	-----	10.5	3.2	-----	1.5	1.8	1.2	1.6	1.1	3.0	1.7
7	6.2	-----	8.2	3.9	-----	1.4	1.7	1.1	1.5	1.0	2.7	1.7
8	6.0	-----	7.8	4.4	-----	1.4	1.7	1.1	1.4	1.0	2.6	2.0
9	4.3	-----	5.3	5.8	-----	1.5	1.8	1.1	1.4	1.0	2.4	2.0
10	Frozen.	-----	4.1	5.5	-----	1.4	1.8	1.3	1.4	1.0	2.3	2.0
11	-----	-----	3.8	5.2	-----	1.4	1.8	1.3	1.3	1.0	2.3	2.0
12	-----	-----	4.0	4.4	-----	1.4	1.9	1.2	1.2	1.0	2.5	2.0
13	-----	-----	5.5	4.2	-----	1.3	1.9	1.4	1.2	1.0	2.9	4.8
14	-----	-----	5.8	4.0	-----	1.3	1.9	1.4	1.2	1.0	2.9	5.8
15	-----	-----	5.0	4.6	-----	1.3	1.9	1.4	1.0	1.0	2.7	5.9
16	-----	-----	4.8	-----	-----	1.9	1.7	1.4	1.0	1.0	3.2	4.0
17	-----	-----	4.4	-----	1.7	1.8	1.7	1.3	1.0	1.0	3.4	3.7
18	-----	-----	4.2	-----	2.0	1.4	2.0	1.2	1.0	1.0	3.4	3.0
19	-----	-----	4.2	-----	5.3	1.4	2.0	1.0	1.2	1.0	3.4	2.9
20	-----	-----	5.5	-----	5.3	1.4	2.9	0.8	1.2	1.0	3.0	2.8
21	-----	-----	6.7	-----	4.3	2.8	3.0	0.9	1.2	1.0	2.9	2.7
22	-----	-----	5.6	-----	3.1	2.4	3.0	0.9	1.2	1.0	2.8	2.5
23	-----	-----	5.0	-----	2.8	2.3	2.6	0.9	1.2	1.0	2.6	2.4
24	-----	-----	4.7	-----	2.6	2.1	2.6	-----	1.0	1.0	2.9	3.0
25	-----	-----	4.3	-----	2.4	2.0	2.6	-----	1.0	1.0	2.9	4.8
26	-----	-----	4.2	-----	1.9	2.0	1.4	-----	1.0	1.0	2.8	4.9
27	-----	-----	4.0	-----	1.7	2.2	1.4	-----	1.0	1.0	2.8	3.5
28	-----	-----	4.0	-----	1.6	2.0	1.4	2.8	1.0	1.0	2.7	3.4
29	-----	-----	4.8	-----	1.6	2.0	1.4	2.3	1.2	1.0	2.6	Frozen.
30	-----	-----	5.2	-----	1.5	2.0	1.4	2.0	1.2	1.0	2.5	-----
31	-----	-----	5.7	-----	2.1	-----	1.4	1.9	-----	1.0	-----	-----

4044—28

DAILY RIVER STAGES.

Susquehanna River system—West Branch of Susquehanna River, Williamsport, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.8	1.9	6.5	13.0	3.5	1.8	3.1	6.5	0.5	6.8	2.3	4.0
2	4.5	2.0	6.6	11.0	3.4	2.0	2.7	6.7	0.4	6.8	2.3	3.8
3	4.1	2.4	6.1	10.0	3.1	1.7	2.8	6.9	0.4	5.8	2.3	3.3
4	3.8	4.1	4.7	8.5	3.0	1.4	2.0	5.9	0.4	4.5	2.1	3.1
5	3.5	4.1	3.9	7.1	2.8	1.3	2.3	4.8	0.4	3.2	2.5	2.9
6	3.3	3.9	4.1	6.1	2.6	1.2	2.4	4.0	0.5	1.7	7.5	2.4
7	3.1	10.8	4.0	5.8	2.4	1.4	2.3	3.5	0.5	1.5	6.9	2.0
8	2.9	9.2	3.9	5.6	2.3	1.6	2.1	3.7	0.6	1.3	6.2	1.7
9	2.4	6.8	3.9	5.1	2.2	2.6	2.0	3.2	0.7	0.9	5.4	3.2
10	2.4	6.1	3.8	4.7	2.1	5.3	3.3	2.9	0.6	0.9	4.5	4.4
11	2.3	5.3	3.6	4.8	1.9	4.3	3.0	2.7	0.4	0.8	4.3	5.0
12	2.1	4.3	3.1	5.3	1.9	3.4	2.6	2.5	0.4	0.7	3.9	4.2
13	2.0	4.1	2.4	5.7	1.6	2.9	2.2	2.2	0.4	9.8	4.0	4.0
14	2.0	3.7	2.7	7.8	1.6	2.5	1.9	2.5	0.4	10.8	4.0	3.5
15	1.8	3.7	2.4	8.3	1.5	2.2	1.7	2.3	0.5	9.8	3.6	3.3
16	1.7	4.6	2.0	7.5	1.5	2.2	1.8	2.1	0.6	8.2	3.1	3.2
17	1.5	4.3	2.4	6.8	1.5	2.1	1.9	1.8	0.6	6.5	3.1	2.9
18	1.4	3.6	2.5	6.1	1.6	4.1	2.2	1.5	0.9	6.1	3.0	2.9
19	1.3	3.2	2.4	5.7	1.4	4.0	2.3	1.4	0.6	5.4	2.8	2.7
20	1.3	1.7	3.6	5.2	1.3	3.5	1.8	1.2	1.5	4.7	2.7	2.5
21	1.4	1.5	3.8	4.7	1.4	3.0	1.6	1.0	2.0	4.0	2.7	2.2
22	1.4	2.2	3.8	4.7	1.3	2.6	1.7	0.9	1.6	3.7	2.7	2.2
23	1.4	1.9	4.5	4.5	1.3	2.4	1.8	0.9	0.7	3.6	2.6	2.1
24	1.6	2.3	4.2	4.4	1.1	2.1	2.0	0.8	0.6	3.5	2.6	2.4
25	2.5	3.2	4.1	4.1	1.0	3.5	2.5	1.0	0.3	3.4	2.8	2.2
26	2.7	3.1	4.2	4.2	1.1	7.0	3.1	1.0	0.3	3.3	2.8	2.0
27	2.9	2.5	4.8	4.1	1.1	6.2	3.8	0.9	0.4	3.2	2.8	1.8
28	2.9	2.6	5.6	3.8	1.2	5.1	3.9	0.6	0.5	3.0	2.8	1.5
29	2.5	4.0	7.1	3.7	1.2	4.4	5.0	0.6	0.6	2.7	3.3	1.3
30	2.2	-----	10.8	3.7	1.0	3.8	5.8	0.6	1.3	2.5	4.0	1.6
31	2.0	-----	13.9	-----	1.5	-----	6.8	0.5	-----	2.5	-----	1.8

1897.

1	1.9	1.6	4.0	4.3	2.6	1.9	1.0	3.1	0.7	0.9	0.4	4.4
2	2.0	1.5	3.5	4.0	3.9	1.8	1.0	3.0	0.7	0.9	1.0	3.8
3	2.1	1.5	3.1	3.7	5.2	1.8	1.0	2.5	0.6	0.8	4.8	3.4
4	2.1	1.5	5.1	3.4	8.8	2.4	0.9	2.2	0.6	0.7	4.1	3.1
5	2.8	1.5	7.0	3.2	8.5	2.3	0.9	2.1	0.5	0.6	3.1	4.0
6	3.9	1.5	7.4	3.3	7.9	2.0	0.7	2.0	0.4	0.5	2.7	4.5
7	3.5	3.7	10.4	3.6	7.2	1.7	0.7	2.4	0.3	0.5	2.3	5.0
8	3.0	4.1	9.1	3.8	6.1	1.6	0.7	2.2	0.3	0.4	1.9	4.7
9	3.0	3.9	7.6	4.0	5.5	1.6	0.7	2.1	0.2	0.3	1.8	4.1
10	3.0	3.7	6.9	8.0	4.9	1.8	0.8	1.7	0.2	0.3	2.0	3.8
11	3.0	3.5	7.8	8.8	4.6	1.8	0.8	1.6	0.0	0.3	2.1	3.6
12	3.2	3.6	8.6	7.8	4.5	1.7	1.0	2.0	0.0	0.3	2.9	3.8
13	2.9	3.3	8.8	6.7	4.4	1.5	0.9	1.9	0.1	0.4	2.6	4.0
14	1.8	3.0	8.6	5.9	6.5	1.4	0.9	1.7	0.1	0.5	2.4	4.1
15	1.7	2.7	7.7	5.6	7.4	1.3	0.9	1.5	0.1	0.5	2.2	4.8
16	2.2	2.7	6.7	6.6	7.1	1.2	1.0	1.3	0.2	0.5	2.1	7.4
17	2.2	2.7	6.1	7.8	6.9	1.1	1.0	1.1	0.3	0.4	2.3	7.7
18	2.2	2.8	5.1	6.9	5.4	1.1	1.1	1.0	0.4	0.3	4.9	6.7
19	2.5	3.6	5.3	6.1	4.8	1.1	1.1	0.8	0.5	0.3	4.5	6.3
20	2.2	3.6	5.4	5.4	4.8	1.3	1.1	1.0	0.5	0.3	3.8	5.9
21	1.4	3.7	8.3	4.9	4.6	1.5	1.1	1.1	0.5	0.4	3.4	5.3
22	1.6	3.9	8.8	4.4	4.4	1.2	1.2	1.0	0.6	0.5	3.0	4.9
23	2.0	5.1	8.5	4.0	3.8	1.1	1.2	0.9	0.7	0.6	2.7	4.6
24	2.2	8.8	8.8	3.7	3.2	1.1	2.0	3.5	0.8	0.7	2.5	3.8
25	2.4	7.8	11.3	3.4	3.0	1.1	2.3	2.8	2.4	0.6	2.3	3.6
26	2.2	6.3	10.2	3.1	2.8	1.2	2.5	2.2	2.3	0.6	2.0	3.3
27	2.3	5.2	8.4	3.1	2.7	1.2	2.0	1.5	2.2	0.6	2.5	3.0
28	1.5	4.3	7.1	3.0	2.6	1.2	3.1	1.2	2.0	0.5	3.5	3.1
29	1.8	-----	6.2	2.9	2.4	1.2	4.6	1.0	1.7	0.5	5.7	2.4
30	1.9	-----	5.3	2.7	2.2	1.0	4.8	0.8	1.1	0.4	5.0	2.0
31	1.8	-----	4.7	-----	2.0	-----	3.8	0.7	-----	0.4	-----	2.2

DAILY RIVER STAGES.

435

Susquehanna River system—West Branch of Susquehanna River, Williamsport, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.0	2.9	3.5	8.2	4.6	3.5	2.0	1.0	1.1	0.6	3.3	1.8
2	1.9	2.6	3.2	6.9	4.1	3.1	1.6	0.9	1.0	0.5	3.0	1.9
3	1.7	2.5	3.2	6.1	4.0	2.8	1.4	1.0	0.9	0.5	2.7	1.9
4	1.7	2.1	3.1	5.3	3.8	2.5	1.3	1.3	0.9	0.5	2.4	2.1
5	1.8	2.8	3.0	4.8	3.4	2.2	1.1	2.8	0.8	0.6	2.2	2.3
6	2.0	2.9	2.9	4.4	3.5	2.0	1.0	2.9	0.8	1.1	2.0	2.6
7	2.1	3.1	2.8	4.0	3.8	1.8	0.9	2.0	0.7	1.0	2.0	2.6
8	2.1	3.0	3.0	3.7	3.8	1.8	0.8	1.5	0.7	1.3	1.8	2.5
9	2.1	2.9	3.1	3.5	3.9	1.6	0.8	1.3	0.9	1.2	1.8	2.2
10	2.1	2.9	3.8	3.3	4.1	1.4	0.8	1.2	1.0	1.2	1.8	2.0
11	2.5	3.1	4.7	3.2	3.7	1.6	0.7	1.1	0.8	1.1	4.8	1.8
12	2.6	3.8	6.3	3.0	3.4	1.8	0.7	1.0	0.6	1.1	9.4	1.6
13	2.9	8.4	8.0	2.9	3.2	2.0	0.7	1.0	0.7	1.2	7.3	1.8
14	9.6	8.0	9.4	2.7	3.0	2.5	0.6	1.7	0.6	1.3	6.3	1.6
15	8.7	7.1	8.4	2.7	3.0	3.4	0.6	1.4	0.6	1.5	5.3	1.5
16	7.5	6.3	7.2	3.5	2.9	3.1	0.6	1.2	0.6	1.4	4.9	1.4
17	8.2	4.7	6.2	3.5	3.0	2.5	0.5	1.0	0.5	1.3	4.1	1.3
18	7.2	4.6	5.8	3.5	3.0	2.0	0.5	1.0	0.5	1.2	3.6	1.4
19	6.1	4.3	5.4	3.2	4.0	1.9	0.5	1.4	0.4	1.3	3.4	1.5
20	5.3	4.8	9.0	3.1	3.9	1.8	0.5	6.8	0.5	2.3	3.2	1.7
21	5.6	5.3	10.8	3.0	5.1	1.7	0.7	4.8	0.4	2.7	3.0	2.0
22	6.2	6.4	10.2	3.0	4.8	1.6	0.8	3.9	0.5	4.2	2.8	2.6
23	7.0	6.0	14.8	2.9	5.1	1.6	0.8	3.0	0.4	9.0	2.7	5.3
24	9.9	5.3	21.0	4.0	5.1	1.4	0.7	2.5	0.4	8.9	2.5	8.3
25	9.3	5.0	14.8	7.7	6.0	1.3	0.7	2.1	0.4	7.0	2.4	7.3
26	7.6	4.6	10.4	8.7	6.3	1.2	0.7	2.1	0.5	5.0	2.3	6.3
27	6.8	4.2	8.6	8.2	5.6	1.1	1.9	1.9	0.5	4.7	2.1	5.3
28	6.0	3.8	7.1	6.4	5.3	1.0	1.9	1.8	0.6	5.0	1.9	4.7
29	5.3	-----	6.3	5.7	4.8	2.1	1.3	1.7	0.5	4.7	1.8	4.3
30	4.7	-----	9.9	5.1	4.3	2.7	1.0	1.6	0.6	4.2	1.8	4.1
31	4.1	-----	10.1	-----	3.9	-----	1.0	1.5	-----	3.6	-----	3.9

1899.

1	3.9	3.0	7.8	6.8	2.9	2.4	1.2	0.4	1.4	0.4	0.4	1.5
2	3.9	2.8	7.3	6.4	2.8	2.4	1.1	0.3	1.5	0.5	3.8	1.5
3	3.9	2.6	7.3	6.0	2.7	2.3	1.0	0.3	1.5	0.5	3.8	1.6
4	3.8	2.5	7.8	5.3	2.7	2.2	0.9	0.1	1.5	0.4	3.8	1.6
5	4.8	2.6	11.8	4.5	2.9	2.1	0.8	0.2	1.5	0.4	3.4	1.9
6	7.0	2.8	13.1	4.3	2.5	1.9	0.7	0.1	1.4	0.4	2.9	1.6
7	8.0	2.8	11.3	4.3	2.3	1.7	0.7	0.0	1.3	0.4	2.4	1.5
8	6.3	2.9	9.1	6.8	2.2	1.5	0.7	0.0	1.3	0.4	2.1	1.7
9	5.3	2.9	7.3	7.8	2.3	1.3	0.6	0.1	1.2	0.4	1.9	1.6
10	4.3	2.8	6.3	7.8	2.4	1.3	0.6	0.1	1.2	0.4	2.0	1.7
11	4.0	2.7	5.4	6.8	2.4	1.2	0.6	0.2	1.1	0.4	2.1	1.7
12	3.9	2.6	6.3	6.3	2.7	1.2	0.6	0.2	1.0	0.4	2.2	1.9
13	3.8	2.4	7.3	6.8	2.5	1.1	0.6	0.8	0.9	0.4	2.3	7.0
14	4.3	2.3	7.8	7.3	2.4	1.0	0.6	0.6	0.8	0.3	2.6	7.5
15	4.8	2.3	7.1	7.3	2.3	1.0	0.6	0.4	0.7	0.3	2.9	6.3
16	5.3	2.4	6.1	6.8	2.2	1.0	0.6	0.2	0.7	0.3	3.1	5.5
17	5.8	2.5	5.8	6.3	2.0	0.9	0.6	0.3	0.6	0.3	3.2	4.7
18	5.8	2.6	5.8	5.1	2.7	0.9	0.8	0.3	0.5	0.3	3.6	4.0
19	5.6	2.8	7.5	4.9	6.8	0.8	1.1	0.2	0.5	0.3	3.5	3.9
20	4.5	3.2	9.3	4.6	7.3	0.8	1.4	0.1	0.4	0.3	3.5	3.8
21	3.9	3.3	8.8	4.4	6.1	0.7	1.7	0.0	0.4	0.3	3.2	4.3
22	3.9	4.2	7.6	4.2	4.9	0.5	1.2	0.2	0.3	0.3	2.9	4.9
23	3.8	5.3	6.8	4.0	4.1	0.6	1.0	0.1	0.3	0.3	2.6	4.3
24	3.8	6.8	7.0	3.7	3.6	0.5	0.8	0.1	0.4	0.3	2.4	4.5
25	4.0	7.3	5.8	3.5	3.1	1.3	0.7	0.1	0.3	0.3	2.3	4.8
26	4.2	6.3	5.8	3.3	2.9	1.0	0.6	0.2	0.3	0.2	2.2	5.0
27	3.6	5.3	5.8	3.7	2.7	1.3	0.6	1.4	0.3	0.2	2.1	4.5
28	3.5	8.3	5.6	3.6	2.5	1.2	0.4	2.5	0.3	0.2	1.9	4.3
29	3.4	-----	6.5	3.3	2.4	1.3	0.3	2.0	0.4	0.2	1.9	3.8
30	3.2	-----	8.3	3.1	2.4	1.3	0.4	1.7	0.4	0.1	1.7	3.7
31	3.0	-----	7.8	-----	2.5	-----	0.4	1.5	-----	0.1	-----	3.5

DAILY RIVER STAGES.

*Susquehanna River system (West Branch)—Lycoming Creek, Trout Run, Pa.***1898.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		Frozen.	1.1	1.3	1.2	1.0	0.6	0.0	0.8	0.3	1.1	0.8
2			1.0	1.2	1.1	0.9	0.6	0.0	0.8	0.3	1.0	0.8
3			1.0	1.1	1.2	0.9	0.6	0.0	0.7	0.3	1.0	0.8
4			1.0	1.1	1.2	0.8	0.5	1.6	0.7	0.3	0.9	0.8
5			1.0	1.1	1.1	0.8	0.5	1.7	0.6	0.6	0.9	1.0
6			1.0	1.0	1.4	0.8	0.5	1.0	0.6	0.8	0.9	0.9
7			1.0	1.0	1.3	0.8	0.5	0.8	0.8	0.6	0.9	0.9
8			1.1	1.0	1.2	0.8	0.5	0.7	0.7	0.6	0.9	0.9
9			1.2	1.0	1.1	0.8	0.5	0.6	0.7	0.6	0.9	Frozen.
10		1.0	1.4	1.0	1.1	0.8	0.5	0.6	0.7	0.6	0.9	
11		1.0	1.7	0.9	1.1	0.8	0.4	0.5	0.6	0.6	2.1	
12		1.5	2.4	0.9	1.1	1.2	0.3	0.5	0.6	0.6	1.9	
13		1.6	2.5	0.9	1.1	1.0	0.2	0.6	0.6	0.6	1.4	
14		1.3	2.4	0.9	1.0	1.1	0.0	0.6	0.5	0.7	1.3	
15		1.2	1.9	1.0	1.0	0.9	0.0	0.6	0.5	0.9	1.1	
16		1.2	1.7	1.0	1.0	0.8	0.0	0.6	0.4	0.8	1.1	
17		Frozen.	1.5	1.0	1.1	0.8	0.0	0.5	0.3	0.8	1.1	
18			1.4	0.9	1.0	0.8	0.0	0.7		0.8	1.0	
19		1.0	1.5	0.9	1.0	0.7	0.0	1.2	0.2	0.9	1.0	
20		1.1	2.4	0.9	1.4	0.7	0.0	1.5	0.2	1.1	1.0	
21		2.5	2.0	0.9	1.4	0.8	0.3	1.2	0.2	1.1	1.0	
22		1.9	2.0	0.9	1.3	0.7	0.2	1.0	0.2	2.4	0.9	0.9
23		1.5	3.8	0.9	1.2	0.7	0.1	0.8	0.3	2.0	1.0	1.7
24		1.4	2.5		1.4	0.6	0.1	0.7	0.3	1.5	1.0	1.5
25		1.3	2.0	2.3	1.5	0.6	0.0	1.3	0.3	1.3	0.9	1.2
26		1.2	1.7	2.1	1.4	0.6	0.9	1.0	0.3	1.3	0.9	1.1
27		1.1	1.6	1.6	1.4	0.6	0.6	1.1	0.4	1.9	0.9	1.0
28		1.1	1.4	1.5	1.3	0.8	0.2	1.0	0.3	1.3	0.8	1.0
29			1.4	1.4	1.2	0.8	0.0	0.8	0.3	1.2	0.8	Frozen.
30			1.5	1.3	1.1	0.7	0.0	0.8	0.3	1.2	0.9	
31			1.4		1.0		0.0	0.8		1.1		

1899.

1	Frozen.	Frozen.	1.1	1.3	1.0	0.8	0.5	0.0	0.5	0.0	1.1	0.8
2			1.2	1.1	1.0	0.7		0.0	0.7	0.1	1.4	0.8
3			1.1	1.1	1.0	0.7	0.4	0.0		0.1	1.0	
4			1.7	1.1	0.9		0.2	0.0	0.7	0.1	1.8	0.8
5	1.5		2.9	1.1	0.9	0.7	0.0	0.0	0.7	0.1		0.8
6	1.3		2.2	1.2	0.8	0.8	0.0	0.0	0.6	0.1	1.1	0.8
7	1.3		1.9	1.3		0.7	0.0	0.0	0.6	0.1	1.0	0.8
8	Frozen.		1.6	2.8	0.8	0.7	0.0	0.0	0.6		1.0	0.8
9			1.4	2.0	0.8	0.7		0.0	0.5	0.1	0.9	0.8
10			1.3	1.8	0.8	0.6	0.0	0.0		0.1	0.9	
11			1.2	1.7	0.8		0.0	0.0	0.5	0.1	1.0	0.8
12			1.5	1.8	0.8	0.6	0.0	0.3	0.2	0.1		1.0
13			2.0	2.1	0.8	0.6	0.0	0.3	0.2	0.1	0.9	2.0
14			1.6	2.2	0.8	0.6	0.0	0.3	0.2	0.1	0.9	1.6
15			1.6	2.2	0.7	0.6	0.0	0.2	0.2		0.9	1.5
16			1.5	2.0	0.7	0.6		0.0	0.2	0.1	1.1	1.2
17			1.4	1.8	0.7	0.5	0.3	0.0		0.1	1.1	
18			1.4	1.5	0.8		0.2	0.0	0.2	0.1	1.1	1.1
19			1.6	1.5	0.8	0.4	0.2	0.0	0.2	0.1		1.0
20			2.0	1.5	0.7	0.3	0.1	0.0	0.2	0.1	1.1	1.4
21			1.6	1.4		0.3	0.0	0.0	0.1	0.1	1.0	1.2
22			1.5	1.3	0.7	0.3	0.0	0.0	0.1		1.0	1.1
23			1.6	1.3	0.7	0.3		0.0	0.1	0.1	1.0	1.0
24	0.9		1.6	1.2	0.7	0.3	0.0	0.0		0.1	1.0	1.1
25	1.0	1.0	1.6	1.2	6.6		0.0	0.0	0.1	0.1	0.9	2.1
26	Frozen.	1.0	1.5	1.5	0.5	0.5	0.0	0.0	0.1	0.1	0.9	2.0
27		1.0	1.5	1.2	0.5	0.5	0.0	0.0	0.6	0.1	1.0	1.8
28		1.1	1.4	1.2	0.5	0.5	0.0	1.1	0.4	0.1	0.9	1.5
29			1.6	1.1	0.5	0.5	0.0	0.9	0.2		0.9	Frozen.
30			1.5	1.1	1.1	0.5		0.8	0.1	0.1	0.9	
31			1.3		0.9		0.0	0.6		0.1		

DAILY RIVER STAGES.

437

Susquehanna River system (West Branch)—Pine Creek, Cedar Run, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-0.4	-0.9	-0.1	1.1	-1.4	-1.7	-1.6	-0.6	-2.6	-1.0	-1.9	-1.5
2	-0.5	-0.6	-0.4	1.2	-1.4	-1.8	-1.6	-0.8	-2.6	-1.4	-1.9	-1.6
3	-0.8	-0.1	-0.8	0.8	-1.4	-2.0	-1.6	-0.8	-2.7	-1.6	-2.0	-1.5
4	-1.1	-0.5	-0.5	0.1	-1.4	-2.0	-1.6	-1.3	-2.6	-2.0	-2.0	-1.5
5	2.4	-0.6	-0.5	-0.1	-1.6	-2.0	-0.6	-1.5	-2.6	-2.1	-1.8	-1.5
6	1.6	-0.5	-0.5	-0.1	-1.6	-2.0	-1.0	-1.8	-2.4	-2.1	-0.5	-1.5
7	1.6	-0.5	-1.0	-0.4	-1.7	-1.4	-1.0	-1.8	-2.4	-2.0	-0.9	-1.6
8	0.8	-0.3	-1.1	-0.4	-1.7	-0.6	-1.3	-1.8	-2.4	-1.6	-1.0	-1.6
9	0.9	-0.8	-1.2	-0.4	-1.7	0.7	-0.3	-2.0	-2.5	-2.0	-1.2	-1.0
10	0.2	-1.1	-1.3	-0.2	-1.8	0.3	-0.7	-2.0	-2.6	-2.1	-1.2	-1.0
11	-0.1	-1.2	-1.4	-0.1	-2.0	0.1	-0.9	-2.0	-2.6	-2.1	-0.9	-1.1
12	-0.4	-1.4	-1.6	0.3	-2.0	-0.7	-1.1	-2.1	-2.6	-1.9	-1.4	-1.1
13	-0.7	-1.4	-1.4	0.7	-1.9	-1.0	-1.3	-2.1	-2.6	2.4	-1.4	-1.1
14	-0.8	-1.4	-1.4	1.4	-1.9	-1.1	-1.4	-2.3	-2.6	2.7	-1.4	-1.2
15	-0.8	-1.4	-1.5	1.1	-1.9	-1.1	-1.5	-2.3	-2.6	1.4	-1.5	-1.3
16	-1.4	-1.4	-1.6	0.8	-2.0	-1.3	-1.5	-2.3	-2.6	0.4	-1.6	-1.4
17	-1.2	-1.7	-1.6	0.8	-2.1	0.1	-1.8	-2.3	-2.6	-0.2	-1.6	-1.5
18	-0.8	-1.8	-1.6	0.4	-2.1	-0.2	-1.8	-2.3	-2.6	-0.5	-1.6	-1.6
19	-0.9	-1.7	-1.6	0.1	-2.1	-0.6	-1.8	-2.3	-2.3	-0.7	-1.7	-1.6
20	-0.9	-1.7	-1.4	-0.3	-2.1	-0.7	-1.8	-2.3	-1.7	-1.0	-1.7	-1.7
21	-1.1	-1.6	-0.8	-0.4	-2.1	-1.1	-1.8	-2.3	-2.1	-1.1	-1.8	-1.8
22	-1.3	-1.6	-0.9	-0.7	-2.1	-1.2	-2.0	-2.5	-2.2	-1.2	-1.8	-1.8
23	-1.3	-1.4	-0.9	-0.9	-2.1	-1.4	-1.8	-2.4	-2.3	-1.4	-1.8	-1.8
24	-0.7	-1.4	-0.9	-1.0	-2.3	-1.5	-1.8	-2.2	-2.4	-1.4	-1.8	-1.7
25	0.1	-1.4	-0.9	-1.1	-2.0	-0.9	-1.2	-2.3	-2.6	-1.5	-1.8	-1.7
26	0.2	-1.4	-1.3	-1.1	-2.0	-1.0	-1.5	-2.5	-2.6	-1.6	-1.6	-1.5
27	-0.4	-1.4	-0.9	-1.2	-2.1	-1.1	-1.6	-2.5	-2.6	-1.6	-1.6	-1.5
28	-1.1	-1.4	-1.2	-1.3	-2.1	-1.3	-0.6	-2.5	-2.6	-1.7	-1.4	-1.5
29	-1.1	-0.1	0.6	-1.3	-1.9	-1.4	-0.2	-2.5	-2.5	-1.7	-1.4	-1.5
30	-1.0		1.8	-1.3	-1.9	-1.4	0.4	-2.6	-2.0	-1.8	-1.4	-1.5
31	-0.9		1.4		-1.5		-0.2	-2.4		-1.9		-1.5

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.6	-1.7	-1.2	-0.9	-0.5	-1.9	-2.5	-2.6	-2.5	-2.6	-2.5	-1.5
2	-1.6	-1.7	-1.2	-0.9	-0.7	-2.0	-2.5	-2.6	-2.5	-2.6	-0.8	-1.5
3	-1.6	-1.7	-1.0	-0.9	-0.3	-2.0	-2.5	-2.6	-2.5	-2.6	-0.1	-1.5
4	-1.6	-1.7	-0.2	-1.0	1.0	-1.9	-2.5	-2.6	-2.5	-2.6	-1.0	-1.5
5	-1.6	-1.7	-0.1	-1.0	0.7	-2.0	-2.6	-1.1	-2.5	-2.6	-1.3	-0.8
6	-1.4	-1.7	-0.2	-1.0	0.3	-2.1	-2.6	-1.8	-2.5	-2.6	-1.5	-1.1
7	-1.4	-0.6	-0.5	-1.0	-0.3	-2.2	-2.6	-1.9	-2.5	-2.6	-1.7	-1.4
8	-1.5	-0.3	-0.8	-1.0	-0.3	-1.8	-2.7	-2.0	-2.5	-2.6	-1.7	-1.4
9	-1.5	-0.6	-0.6	-0.8	-0.6	-2.1	-2.7	-2.1	-2.5	-2.6	-1.7	-1.4
10	-1.6	-0.7	-0.1	0.5	-0.8	-2.1	-2.7	-1.6	-2.6	-2.6	-1.7	-1.4
11	-1.6	-0.8	-0.2	0.1	-0.7	-2.1	-2.7	-1.6	-2.6	-2.6	-1.8	-1.3
12	-1.6	-0.9	0.3	-0.3	-0.9	-2.1	-2.5	-1.6	-2.6	-2.6	-1.6	-1.2
13	-1.6	-1.0	0.2	-0.8	-0.3	-2.3	-1.7	-1.8	-2.6	-2.7	-1.6	-1.1
14	-1.6	-1.0	-0.1	-0.7	0.1	-2.2	-2.0	-2.2	-2.8	-2.6	-0.7	-1.1
15	-1.6	-1.0	-0.4	-0.3	0.0	-2.3	-2.0	-2.2	-2.8	-2.6	-0.7	-0.3
16	-1.6	-0.9	-0.4	-0.4	-0.3	-2.3	-2.0	-2.1	-2.8	-2.7	-0.7	0.0
17	-1.6	-0.7	-0.5	-0.6	-0.5	-2.3	-2.0	-2.2	-2.7	-2.7	-0.7	-0.4
18	-1.5	-0.7	-0.8	-0.8	-0.8	-2.4	-2.0	-2.2	-2.8	-2.7	-1.2	-0.4
19	-1.6	-0.7	-0.7	-0.9	-0.8	-2.5	-2.2	-2.3	-2.8	-2.7	-1.3	-0.8
20	-1.6	-0.7	-0.1	-0.9	-0.9	-2.1	-2.3	-2.3	-2.6	-2.7	-1.4	-0.8
21	-1.5	-0.6	0.5	-1.0	-1.0	-2.3	-2.4	-2.4	-2.5	-2.7	-1.6	-0.8
22	-1.5	-0.6	0.4	-1.2	-1.2	-2.4	-2.4	-2.4	-2.6	-2.5	-1.6	-1.0
23	-1.6	-0.3	0.6	-1.4	-1.3	-2.4	-2.4	-2.6	-2.7	-2.4	-1.7	-1.1
24	-1.7	-0.3	1.7	-1.4	-1.4	-2.5	-2.3	-1.8	-0.7	-2.4	-1.7	-1.1
25	-1.7	-0.7	1.3	-1.4	-1.5	-2.5	-2.3	-1.7	-1.3	-2.6	-1.7	-1.1
26	-1.7	-0.8	0.4	-1.3	-1.5	-2.5	-2.4	-2.0	-1.9	-2.6	-1.4	-1.1
27	-1.7	-0.9	0.0	-1.3	-1.5	-2.5	-1.7	-2.1	-2.0	-2.6	-0.2	-1.1
28	-1.7	-1.2	-0.4	-1.5	-1.6	-2.5	-1.4	-2.4	-2.2	-2.6	-0.5	-1.1
29	-1.7		-0.7	-1.5	-1.7	-2.6	-1.4	-2.3	-2.3	-2.6	-0.7	-1.1
30	-1.7		-0.8	-1.5	-1.8	-2.6	-1.7	-2.4	-2.4	-2.6	-0.9	-1.1
31	-1.7		-0.8		-1.8		-1.7	-2.5		-2.6		-1.1

Susquehanna River system (West Branch)—Pine Creek, Cedar Run, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.1	-1.4	-1.4	-0.5	-1.0	-1.5	-2.3	-2.0	-2.3	-2.6	-1.5	-1.8
2	-1.1	-1.4	-1.4	-0.7	-1.1	-1.5	-2.3	-2.1	-2.3	-2.6	-1.6	-1.8
3	-1.1	-1.4	1.3	-0.8	-1.0	-1.6	-2.3	-2.2	-2.3	-2.6	-1.6	-1.9
4	-1.1	-1.4	1.4	-1.1	-1.1	-1.7	-2.4	-2.1	-2.3	-2.6	-1.7	-1.9
5	-1.1	-1.4	1.4	-1.2	-1.3	-1.8	-2.4	-2.0	-2.4	-2.2	-1.7	-2.0
6	-1.1	-1.4	1.5	-1.3	1.1	1.9	-2.4	-1.5	-2.4	-2.3	-1.8	-2.0
7	-1.1	1.4	1.5	-1.3	1.1	-2.0	-2.4	-2.1	-2.3	-2.4	-1.8	-2.0
8	-1.1	-1.4	1.1	-1.5	1.2	2.0	-2.4	-2.2	-2.0	-2.2	-1.8	-2.0
9	-1.1	1.2	-1.1	-1.5	-1.3	-2.0	-2.5	-2.3	-2.1	-2.2	-1.9	-2.0
10	-1.1	1.1	-0.6	-1.5	-1.3	2.0	-2.5	-2.1	-2.1	-2.3	-1.8	-2.0
11	-1.1	-1.0	-0.2	-1.5	-1.4	2.0	-2.5	-2.5	-2.1	-2.4	0.6	-2.0
12	-1.1	-0.8	-0.8	-1.5	-1.4	-1.6	-2.6	-2.5	-2.2	-2.1	-0.1	-2.0
13	-1.1	-0.2	-1.0	-1.5	-1.4	-1.8	-2.6	-1.9	-2.3	-2.1	-0.4	-2.0
14	-0.3	-0.4	-0.8	-1.7	-1.4	-2.0	-2.6	-2.0	-2.3	2.0	-0.6	-2.0
15	-0.6	-0.5	-0.4	-1.7	-1.5	-2.0	-2.7	-2.1	-2.4	-2.0	-0.9	-1.5
16	-0.4	-0.6	-0.1	-1.6	-1.3	-2.2	-2.7	-2.2	-2.5	-2.0	-1.1	-1.4
17	-0.6	-0.7	0.1	-1.7	-1.3	-2.2	-2.7	-2.3	2.5	-2.0	-1.1	-1.4
18	-0.6	-0.9	-0.4	-1.8	-1.5	-2.3	-2.7	-1.8	-2.6	-2.0	-1.3	-1.4
19	-0.8	-0.9	0.3	1.8	-1.5	-2.3	-2.7	-0.4	-2.6	-2.0	-1.4	-1.4
20	-1.0	-0.9	0.5	-1.8	-1.5	-1.7	-2.7	-1.0	-2.6	-1.6	-1.5	-1.4
21	-0.5	-0.3	0.8	-1.8	-1.5	-2.0	-2.5	-1.3	-2.6	1.7	1.6	-1.4
22	-0.5	-0.6	1.1	-1.8	-0.9	-2.1	-2.3	-1.4	-2.6	1.0	-1.7	-1.2
23	-0.5	-0.8	1.9	-1.8	-0.9	-2.2	-2.5	-1.6	-2.6	-0.4	-1.7	-0.5
24	0.3	-0.9	1.3	0.9	-0.8	-2.3	-2.7	-1.8	-2.6	-0.3	-1.7	-1.0
25	-0.4	-1.1	0.5	0.6	-0.7	-2.3	-2.7	-1.8	-2.6	-0.7	-1.8	-1.1
26	-0.6	-1.3	0.0	0.5	-0.6	-2.3	-1.8	-1.6	-2.6	-0.9	-1.9	-1.1
27	-0.6	-1.3	-0.3	0.1	-0.4	-2.3	-2.1	-1.7	-2.6	-0.9	-1.8	-1.0
28	-0.9	-1.5	-0.3	-0.4	-0.9	-2.3	-2.1	-1.8	-2.6	-1.0	-1.7	-0.9
29	-1.1		-0.3	-0.5	-1.0	-2.3	-2.2	-1.9	-2.6	-1.2	-1.7	-0.8
30	-1.4		-0.3	-0.7	-1.2	-2.3	-2.5	-2.0	-2.6	-1.3	-1.8	-0.7
31	-1.4		-0.4		-1.4		-2.4	-2.1		-1.6		-0.6

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1	-0.8	-0.6	0.9	-1.0	-1.1		-1.8	-2.4	-2.4	-2.3	0.5	-1.9
2	-0.8	-0.6	-0.8	-1.0	-1.2		-1.8	-2.4	-2.5	-2.5	-0.7	-1.7
3	-0.8	-0.6	-1.0	-1.1	-1.3		-1.8	-2.4	-2.5	-2.6	-0.8	-1.7
4	-0.8	-0.6	-1.0	-1.0	-1.4		-1.9	-2.4	-2.5	-2.7	-0.8	-1.8
5	0.6	-0.5	-1.0	-1.0	-1.4		-2.0	-2.4	-2.5	-2.7	-0.9	-1.7
6	0.3	-0.5	0.1	-1.0	-1.5		-2.0	-2.4	-2.5	-2.7	-0.9	-1.6
7	-0.1	-0.5	-0.1	-1.2	-1.6		-2.0	-2.5	-2.6	-2.8	-1.0	-1.6
8	-0.3	-0.5	-0.5	0.3	-1.7		-2.0	-2.4	-2.6	-2.8	-1.0	-1.6
9	-0.3	-0.5	-0.8	0.0	-1.7		-2.0	-2.4	-2.6	-2.8	-1.0	-1.6
10	-0.5	-0.5	-1.0	-0.2	-1.7		-2.0	-2.7	-2.7	-2.8	-1.0	-1.6
11	-0.7	-0.5	-1.0	-0.3	-1.8		-2.0	-2.7	-2.7	-2.8	-1.0	-1.6
12	-1.0	-0.5	-0.5	-0.5	-1.6		-1.9	-2.6	-2.7	-2.8	-1.0	0.4
13	-1.1	-0.5	0.4	-0.3	-1.8		-2.0	-2.6	-2.8	-2.8	-0.6	0.1
14	-1.2	-0.5	-0.1	-0.5	-1.8		-2.0	-2.7	-2.8	-2.8	-1.5	-0.3
15	-0.8	-0.5	-0.4	-0.4	-1.8		-2.0	-2.8	-2.8	-2.8	-1.4	-0.5
16	-1.0	-0.5	-0.4	-0.3	-1.8		-1.9	-2.8	-2.8	-2.8	-1.2	-0.6
17	-1.0	-0.5	-0.4	0.1	-1.8		-1.7	-2.8	-2.8	-2.8	-1.0	-1.0
18	-1.0	-0.5	-0.7	-0.3	-1.7		-1.8	-2.8	-2.8	-2.8	-1.0	-0.7
19	-1.1	-0.5	0.4	-0.6	-1.7		-1.9	-2.8	-2.8	-2.8	-1.1	-0.6
20	-1.4	-0.5	0.0	-0.6	-1.8		-2.0	-2.8	-2.8	-2.8	-1.1	-0.5
21	-1.3	-0.5	-0.5	-0.7	-1.8		-2.0	-2.8	-2.8	-2.8	-1.1	-0.6
22	-1.4	-0.5	-0.5	-0.8	-1.8		-2.0	-2.8	-2.8	-2.8	-1.2	-0.6
23	-1.4	0.1	0.0	-0.9	-1.9		-2.0	2.8	-2.8	-2.8	-1.2	-0.7
24	-1.5	3.5	-0.4	-1.0	-1.9		2.1	-2.8	-2.8	-2.8	-1.3	-0.7
25	-1.4	2.1	-0.7	-1.0	-2.0		-2.2	-2.8	-2.8	-2.8	-1.4	-0.7
26	-1.3	2.2	-0.8	-1.0	-2.0		-2.2	-2.8	-2.4	-2.8	-1.4	-0.7
27	-1.4	2.2	-0.6	-1.0	-2.0		-2.3	-1.9	-1.8	-2.8	-1.5	-0.7
28	-1.4	1.9	-1.0	-1.1	-2.1		-2.3	-1.9	-2.0	-2.8	-1.5	-0.7
29	-1.4		-0.8	-1.1	-2.1		-2.4	-2.0	-2.1	-2.8	-1.6	-0.7
30	-1.4		-0.9	-1.1	-1.8		-2.4	-2.1	-2.2	-2.8	-1.8	-0.7
31	-1.4		-1.0		-1.8		-2.4	-2.3		-2.8		-0.7

DAILY RIVER STAGES.

439

Susquehanna River system (West Branch)—Driftwood Branch, Cameron, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.2	Frozen.	2.0	5.0	1.8	1.6	2.0	1.8	0.6	4.0	1.8	1.2
2	2.0	Frozen.	1.5	4.8	1.7	1.5	2.0	1.6	0.6	3.6	1.7	1.1
3	1.8	Frozen.	1.3	4.5	1.7	1.4	2.0	1.4	0.5	2.0	1.6	1.1
4	1.6	Frozen.	1.2	3.0	1.7	1.4	1.8	1.3	0.5	1.4	1.5	1.0
5	Frozen.	Frozen.	1.1	2.5	1.7	1.3	2.0	1.3	0.7	1.0	1.6	1.0
6			1.1	2.3	1.7	1.3	2.0	1.2	0.7	1.5	1.9	0.8
7		2.9	1.1	2.2	1.6	1.2	1.8	1.1	0.7	1.5	1.8	0.8
8		2.6	1.1	2.2	1.6	1.2	1.8	1.0	0.6	1.5	1.7	0.8
9		2.2	1.0	2.2	1.6	1.3	1.8	1.0	0.6	1.4	1.6	1.8
10		1.0	1.0	2.4	1.5	1.4	1.8	1.2	0.6	1.4	1.5	2.0
11		1.0	1.0	2.4	1.6	1.3	1.8	1.2	0.6	1.4	1.5	2.0
12		1.0	1.1	2.4	1.5	1.2	1.8	1.1	0.6	1.4	1.7	1.8
13		1.0	1.1	4.0	1.5	1.2	1.8	1.0	0.5	2.0	1.7	1.7
14		1.3	1.0	4.0	1.5	1.2	1.6	1.0	0.5	5.0	1.6	1.6
15		1.2	1.0	4.0	1.6	1.2	1.6	1.0	0.5	4.6	1.5	1.5
16		1.4	1.0	3.8	1.6	1.2	1.2	0.9	0.5	3.6	1.4	1.4
17		1.2	1.0	3.6	1.6	4.0	1.2	0.9	0.5	2.6	1.3	1.3
18		Frozen.	1.0	3.5	1.6	2.0	1.2	0.9	0.6	2.4	1.2	1.2
19			1.0	3.2	1.5	1.8	1.1	0.8	0.7	2.2	1.1	1.2
20			1.3	2.0	1.5	1.6	1.1	0.7	0.9	2.2	1.1	1.0
21			1.5	1.9	1.5	1.6	1.1	0.7	0.8	2.2	1.1	1.0
22			1.2	1.8	1.5	1.8	1.1	0.7	0.8	2.2	1.2	0.8
23			1.7	1.8	1.5	1.5	1.3	0.6	0.7	2.1	1.2	0.8
24			1.6	1.8	1.4	1.5	1.3	0.6	0.5	2.1	1.2	0.8
25			1.5	1.9	1.2	4.7	1.5	0.6	0.5	2.1	1.2	0.8
26			1.3	1.9	1.2	2.7	1.4	0.6	0.5	2.1	1.2	0.7
27			2.1	1.8	1.2	2.0	1.4	0.6	0.5	2.0	1.3	Frozen.
28			1.7	1.8	1.2	2.0	1.7	0.6	0.5	2.0	1.5	-----
29		1.5	3.4	1.8	1.4	2.3	1.6	0.6	0.6	1.8	1.5	-----
30			4.8	1.8	1.4	2.0	2.0	0.6	5.0	1.8	1.3	-----
31			5.5	-----	1.6	-----	1.8	0.6	-----	1.8	-----	-----

1897.

1	Frozen.	Frozen.	Frozen.	2.1	0.8	0.5	0.0	0.8	0.1	0.0	-0.1	0.8
2	0.8	-----	-----	1.8	1.0	0.5	0.0	0.6	0.1	0.0	0.3	0.8
3	0.8	-----	1.5	1.5	1.1	0.5	0.0	0.5	0.1	0.0	0.5	0.8
4	0.8	-----	2.5	1.3	1.2	0.5	0.0	0.4	0.1	0.0	0.4	0.8
5	1.5	-----	1.3	1.0	1.2	0.5	0.0	0.3	0.1	0.0	0.4	1.6
6	1.4	-----	5.0	1.0	1.2	0.5	0.0	0.2	0.0	0.0	0.3	1.5
7	1.3	-----	4.5	1.3	1.2	0.5	0.0	0.2	0.0	0.0	0.3	1.4
8	1.2	-----	4.0	1.3	1.0	0.5	0.0	0.1	0.0	0.0	0.3	1.4
9	1.1	-----	3.5	1.5	0.8	0.5	0.0	0.1	0.0	0.0	0.3	1.4
10	1.1	-----	3.8	4.0	0.8	0.5	0.0	0.1	0.0	0.0	0.3	1.4
11	1.0	-----	4.5	3.0	0.8	0.5	0.0	0.3	0.0	0.0	0.3	1.4
12	0.9	-----	4.3	2.5	0.8	0.5	0.0	0.3	0.0	-0.1	0.4	1.5
13	Frozen.	-----	4.5	1.3	1.2	0.5	0.3	0.3	0.0	-0.1	0.4	1.5
14	-----	-----	4.2	1.3	1.2	0.5	0.2	0.3	-0.2	-0.1	0.4	1.5
15	-----	-----	3.5	1.3	1.1	0.5	0.0	0.2	0.0	-0.1	0.4	3.0
16	-----	-----	3.0	1.2	1.1	0.5	0.0	0.2	0.0	-0.1	0.5	3.0
17	-----	-----	2.5	1.0	1.0	0.5	0.0	0.2	0.0	-0.1	1.5	2.8
18	-----	-----	2.3	1.0	0.8	0.5	0.0	0.2	0.0	-0.1	1.1	3.0
19	-----	-----	2.3	1.0	0.8	0.5	0.0	0.2	0.0	-0.1	0.8	2.8
20	-----	-----	2.8	1.0	0.8	0.4	0.0	0.2	0.1	-0.1	0.7	2.7
21	-----	-----	4.0	0.8	0.8	0.4	0.3	0.2	0.1	-0.1	0.6	2.5
22	-----	-----	4.5	0.8	0.7	0.2	0.3	0.1	0.1	-0.1	0.5	2.5
23	-----	2.0	4.0	0.8	0.6	0.0	0.4	0.1	0.1	-0.1	0.5	2.5
24	-----	2.0	4.3	0.7	0.6	0.0	0.4	0.1	0.2	-0.1	0.4	2.3
25	-----	1.8	3.8	0.7	0.6	0.0	0.3	0.1	0.2	-0.1	0.4	2.3
26	-----	1.6	3.3	0.8	0.6	0.1	1.0	0.1	0.1	-0.1	0.3	2.1
27	-----	Frozen.	2.8	0.8	0.6	0.0	1.0	0.1	0.1	-0.1	2.6	2.0
28	-----	-----	2.5	0.8	0.6	0.0	1.0	0.1	0.0	-0.1	2.0	1.8
29	-----	-----	2.3	0.8	0.6	0.0	1.0	0.1	0.0	-0.1	1.8	1.6
30	-----	-----	2.3	0.8	0.5	0.0	0.8	0.1	0.0	-0.1	0.8	1.6
31	-----	-----	2.3	-----	0.5	-----	0.8	0.1	-----	-0.1	-----	1.5

DAILY RIVER STAGES.

Susquehanna River system (West Branch)—Driftwood Branch, Cameron, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.5	1.0	0.8	2.0	0.7	0.6	0.3	0.3	0.6	0.2	2.5	1.2
2	1.0	0.8	0.8	1.5	0.7	0.6	0.3	0.6	0.5	0.2	2.0	1.1
3	0.8	Frozen.	0.8	1.3	0.7	0.6	0.3	0.5	0.5	0.2	2.0	1.0
4	0.8		0.9	1.2	0.8	0.5	0.3	0.5	0.4	0.2	2.0	1.0
5	0.8		0.8	1.0	0.7	0.5	0.3	1.0	0.4	0.3	2.0	1.0
6	0.8		0.7	1.0	0.8	0.4	0.3	0.7	0.4	0.3	1.5	1.0
7	0.8		0.7	0.8	0.6	0.4	0.3	0.5	0.4	0.4	1.5	0.8
8	0.8		0.8	0.8	0.6	0.3	0.3	0.5	0.4	0.8	1.5	0.8
9	0.7		0.8	0.8	0.5	0.3	0.3	0.4	0.4	0.6	1.5	Frozen.
10	0.7		1.0	0.8	0.5	0.3	0.3	0.3	0.3	0.4	1.5	
11	0.7		1.2	0.8	0.5	0.3	0.3	0.3	0.3	0.4	5.5	
12	0.7	4.0	4.0	0.8	0.5	0.5	0.3	0.3	0.3	0.5	4.0	
13	3.0	4.0	4.5	0.7	0.5	0.3	0.3	0.6	0.3	0.5	3.0	
14	3.5	3.5	4.5	0.7	0.5	0.5	0.3	0.4	0.2	0.5	3.0	
15	3.0	3.0	3.5	0.7	0.5	0.4	0.3	0.3	0.2	0.6	2.5	
16	3.8	2.5	3.0	0.7	0.4	0.3	0.2	0.3	0.2	0.6	2.5	
17	3.2	2.3	2.5	0.6	0.5	0.3	0.2	0.3	0.2	0.6	2.5	
18	2.5	2.0	1.5	0.6	0.4	0.3	0.2	1.0	0.2	0.6	2.0	
19	2.3	1.8	1.8	0.6	0.7	0.3	0.2	4.3	0.2	0.7	2.0	
20	2.4	1.6	5.2	0.7	1.1	0.4	0.2	3.3	0.2	0.7	1.8	
21	2.3	1.6	3.0	0.7	1.2	0.4	0.2	2.3	0.2	0.7	1.8	1.2
22	2.2	1.5	3.0	0.7	1.2	0.3	0.2	2.0	0.2	4.5	1.8	1.5
23	4.0	1.4	7.0	0.7	1.2	0.3	0.2	1.7	0.2	4.0	1.8	2.5
24	3.0	1.3	4.0	0.8	1.4	0.3	0.2	1.3	0.3	3.5	1.5	2.3
25	2.5	1.1	3.2	1.5	2.0	0.3	0.4	1.3	0.3	3.0	1.4	1.3
26	2.0	1.0	1.2	1.5	1.8	0.2	1.8	1.1	0.2	3.5	1.4	0.9
27	1.8	0.8	1.0	1.0	1.8	0.2	1.6	1.1	0.2	3.5	1.3	0.8
28	1.6	0.8	1.0	0.8	1.2	0.3	1.0	1.0	0.2	3.0	1.3	0.6
29	1.4		3.0	0.7	0.8	0.3	0.7	0.8	0.2	3.0	1.2	0.6
30	1.2		5.0	0.7	0.7	0.3	0.5	0.6	0.2	2.5	1.2	0.5
31	1.0		2.5		0.6		0.5	0.6		2.5		1.5

1899.

1	1.0		2.5	2.5	1.2							
2	0.8		2.5	2.0	1.2							
3	0.8		2.5	2.0	1.2							
4	1.0		3.5	1.5	1.0							
5	3.5		4.5	1.5	1.0							
6	3.0		4.0	1.5	0.8							
7	2.8		3.5	1.4	0.8							
8	2.5		3.0	4.0	0.8							
9	2.3		2.5	3.5	0.8							
10	2.0		2.5	3.0	0.8							
11	1.5		2.5	2.5	0.8							
12	1.0		3.0	2.5	0.8							
13	0.8		3.5	3.0	0.8							
14	0.8		3.0	3.2	0.8							
15	2.0		2.5	3.0	0.8							
16	2.5		2.5	3.0	0.8							
17	2.5		2.5	2.8								
18	2.3		2.5	2.8								
19	2.0		3.4	2.5								
20	1.8		3.8	2.3								
21	1.6		3.0	2.0								
22	1.4		2.7	2.0								
23	1.3		2.8	1.8								
24	1.2		3.0	1.5								
25	1.2		3.0	1.5								
26	1.2		3.0	1.8								
27	1.0		2.5	1.8								
28	Frozen.		2.8	1.6								
29			3.5	1.4								
30			3.0	1.2								
31			2.5									

DAILY RIVER STAGES.

441

Susquehanna River system (West Branch)—Driftwood Branch, Driftwood, Pa.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	6.1	2.3	4.4	5.0	3.7	3.0	4.2	5.5	3.7	5.2	2.1	3.1
2.....	5.0	2.5	4.3	5.0	3.5	3.0	4.0	5.6	3.7	5.0	2.1	3.1
3.....	4.1	2.5	4.1	5.0	3.5	3.0	4.0	5.9	3.7	4.7	2.1	3.1
4.....	3.2	2.5	4.0	5.0	3.4	3.1	3.8	5.8	3.4	4.5	2.5	3.0
5.....	3.0	2.7	4.0	4.6	3.2	3.1	3.8	5.6	3.0	4.2	3.0	3.0
6.....	3.0	3.5	4.0	4.3	3.0	3.1	3.8	5.3	2.8	4.1	3.0	2.9
7.....	2.5	4.1	4.3	4.1	3.0	3.1	3.8	5.2	2.8	3.0	3.0	2.4
8.....	2.0	4.1	4.0	4.0	2.8	3.2	4.1	5.0	2.6	3.6	2.8	2.8
9.....	2.0	4.1	3.8	4.0	2.6	3.3	4.1	5.0	2.3	3.2	2.8	3.0
10.....	2.0	4.2	3.7	4.1	2.5	3.4	4.0	5.4	2.2	3.1	2.8	4.2
11.....	2.0	4.2	3.5	4.5	2.3	3.3	4.0	5.3	2.0	2.7	2.7	4.5
12.....	1.7	4.1	4.1	4.1	2.2	3.0	4.0	5.1	2.0	2.7	2.5	4.5
13.....	1.5	4.1	4.3	4.0	2.2	2.9	4.8	4.9	2.2	3.2	2.2	4.3
14.....	1.5	4.4	4.5	4.0	2.2	2.9	4.7	4.8	2.3	4.0	2.1	4.3
15.....	1.5	4.3	4.6	3.8	2.6	3.0	4.8	4.4	2.3	4.3	2.0	4.3
16.....	1.5	4.2	4.6	3.7	2.3	3.3	4.7	4.4	2.3	4.4	2.0	4.0
17.....	1.3	4.2	4.6	3.5	2.3	3.6	4.6	4.3	2.5	4.1	2.0	4.0
18.....	1.3	4.2	4.6	3.4	2.3	4.0	4.6	4.3	2.3	3.8	2.0	3.9
19.....	1.3	4.2	5.0	3.1	2.2	3.8	4.5	4.5	2.0	3.8	2.2	3.6
20.....	1.3	4.1	5.1	3.0	2.8	3.7	4.4	4.3	2.0	3.7	2.5	3.4
21.....	1.3	4.0	5.1	3.2	2.8	3.5	4.1	4.2	2.0	3.6	2.4	3.2
22.....	1.3	4.0	5.0	3.3	2.7	3.5	4.5	4.1	2.0	3.4	2.4	3.0
23.....	1.3	4.0	4.8	3.2	2.6	3.7	4.8	3.9	2.0	3.2	2.3	3.0
24.....	2.0	4.0	4.6	3.0	2.6	3.8	5.2	3.8	2.0	3.0	2.2	3.0
25.....	2.0	3.8	4.3	3.6	2.6	6.2	5.5	3.7	2.0	2.8	2.2	2.9
26.....	2.6	3.8	4.2	4.0	2.8	6.0	5.3	3.6	2.0	2.8	2.3	2.9
27.....	2.3	3.8	4.1	4.1	2.8	6.0	5.2	3.6	2.0	2.7	2.4	2.9
28.....	2.3	4.3	4.4	4.1	2.8	5.3	5.7	3.4	2.0	2.5	2.4	2.9
29.....	2.3	4.4	5.0	4.0	3.1	5.0	5.6	3.4	2.0	2.2	2.6	2.7
30.....	2.3	-----	5.6	3.7	3.1	4.3	5.6	3.2	5.3	2.2	2.6	2.5
31.....	2.3	-----	5.0	-----	3.4	-----	5.4	3.7	-----	2.1	-----	2.4

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	2.4	2.0	4.2	3.1	2.1	1.9	1.2	3.6	2.1	2.1	1.2	2.9
2.....	2.4	2.0	4.4	2.8	3.1	1.9	1.2	3.2	2.1	2.0	2.2	2.7
3.....	2.4	2.0	4.5	2.6	3.8	1.9	1.2	3.1	2.1	1.8	2.5	2.4
4.....	2.3	2.0	4.7	2.4	4.8	1.9	1.2	2.9	2.1	1.8	2.3	2.4
5.....	2.3	2.0	4.9	2.4	4.7	1.9	1.2	2.9	2.1	1.8	2.1	2.4
6.....	2.3	2.0	5.3	2.4	4.1	1.9	1.2	3.0	2.1	1.6	2.0	2.4
7.....	2.0	2.9	5.5	2.4	3.8	1.9	1.2	3.0	2.1	1.5	2.0	2.6
8.....	2.0	3.6	5.2	2.7	3.6	1.9	1.2	2.9	2.1	1.3	2.0	2.8
9.....	2.0	3.6	4.9	3.9	3.4	1.8	1.2	2.9	2.1	1.2	2.5	2.9
10.....	2.0	3.6	4.9	4.3	3.2	1.7	1.2	3.3	2.1	1.2	2.7	2.9
11.....	2.0	3.4	4.7	4.3	3.0	1.4	1.3	3.5	2.1	1.2	2.9	2.8
12.....	2.0	3.2	4.3	4.3	3.1	1.4	1.6	3.3	2.1	1.2	2.9	2.8
13.....	2.0	3.4	4.3	4.3	3.9	1.4	1.7	3.2	2.1	1.2	2.7	2.8
14.....	2.0	3.5	4.6	4.2	3.7	1.4	1.6	2.9	2.1	1.2	2.7	3.7
15.....	2.0	3.4	4.5	4.8	3.5	1.4	1.6	2.9	2.1	1.2	2.7	4.3
16.....	2.0	3.4	4.4	4.8	3.1	1.4	1.6	3.1	2.1	1.2	2.7	4.6
17.....	2.0	3.4	4.2	4.7	3.3	1.4	1.6	3.3	2.3	1.2	2.7	4.8
18.....	2.0	3.4	4.0	4.3	3.0	1.4	1.6	3.3	2.4	1.2	2.5	4.5
19.....	2.0	3.4	4.6	4.0	2.9	1.3	1.6	3.3	2.4	1.2	2.4	4.3
20.....	2.0	3.4	4.9	3.8	2.5	1.3	1.7	3.2	2.6	1.2	2.3	3.9
21.....	2.0	3.4	4.9	3.6	2.2	1.3	2.1	2.8	2.6	1.2	2.3	3.7
22.....	2.2	3.4	4.9	3.3	2.2	1.3	2.5	2.6	2.6	1.2	2.3	3.6
23.....	2.2	3.9	4.9	3.0	2.0	1.3	3.1	2.6	2.5	1.2	2.3	3.3
24.....	2.2	4.5	5.6	2.8	2.0	1.2	3.6	2.6	2.8	1.2	2.3	3.0
25.....	2.1	4.3	5.4	2.8	2.0	1.2	3.7	2.4	2.7	1.2	2.3	3.0
26.....	2.1	4.2	5.1	2.6	2.0	1.2	3.9	2.2	2.7	1.2	2.7	3.0
27.....	2.1	4.2	4.8	2.3	2.0	1.2	4.5	2.1	2.4	1.2	2.9	2.8
28.....	2.0	4.2	4.1	2.1	2.0	1.2	4.8	2.1	2.3	1.2	2.9	2.8
29.....	2.0	-----	3.7	2.1	2.0	1.2	4.6	2.1	2.1	1.2	2.9	2.8
30.....	2.0	-----	3.6	2.1	1.9	1.2	4.0	2.1	2.1	1.2	2.9	2.8
31.....	2.0	-----	3.1	-----	1.9	-----	3.6	2.1	-----	1.2	-----	2.8

DAILY RIVER STAGES.

Susquehanna River system (West Branch)—Driftwood Branch, Driftwood, Pa.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.8	4.9	2.9	4.8	2.0	2.0	2.6	2.1	2.0	1.7	2.3	2.4
2	2.8	4.6	2.7	4.3	2.0	2.0	2.3	1.8	2.0	1.5	2.3	2.4
3	3.1	4.1	2.4	4.0	2.0	1.8	2.0	1.8	2.0	1.3	2.3	2.4
4	3.1	3.8	2.3	3.8	2.2	1.6	2.0	1.8	1.9	1.5	2.3	2.4
5	3.0	3.6	2.3	3.3	2.4	1.6	2.0	2.3	1.9	1.8	2.6	2.4
6	2.7	3.4	2.1	3.0	2.5	1.5	1.8	2.1	2.0	1.8	2.7	2.3
7	2.8	3.0	2.1	2.6	2.4	1.5	1.6	1.9	2.3	1.9	2.5	2.3
8	3.0	3.0	2.1	2.3	2.4	1.6	1.6	1.9	2.3	2.3	2.5	2.3
9	3.0	2.8	2.1	2.1	2.3	1.9	1.4	1.9	2.3	2.3	2.5	2.3
10	3.0	2.6	2.1	2.0	2.2	1.9	1.4	1.8	2.1	2.1	3.6	2.2
11	3.1	3.5	2.3	2.3	2.1	2.1	1.2	1.8	1.9	1.9	4.5	2.1
12	4.5	4.3	2.8	2.4	2.1	2.8	1.2	1.8	1.9	1.9	3.7	2.1
13	5.1	4.5	3.6	2.4	2.1	2.8	1.2	1.7	1.8	1.9	3.4	2.1
14	5.3	4.6	3.3	2.2	2.1	2.5	1.0	1.7	1.7	1.9	3.2	2.1
15	5.5	4.3	3.2	2.0	2.1	2.3	1.0	1.6	1.6	2.1	3.0	2.1
16	5.6	4.0	3.2	2.0	2.3	2.0	1.0	1.6	1.6	2.1	2.8	2.1
17	5.6	4.0	3.1	2.0	2.5	2.0	1.0	1.6	1.6	1.9	2.7	2.5
18	5.6	4.0	2.8	2.0	2.7	2.0	1.0	2.3	1.6	1.9	2.6	2.9
19	5.0	3.6	5.4	2.0	2.7	2.6	1.0	5.4	1.6	2.8	2.5	3.3
20	5.2	3.4	6.0	2.0	2.7	2.6	1.0	5.3	1.5	2.9	2.5	3.8
21	5.2	3.2	6.6	2.0	2.9	2.5	1.0	3.4	1.5	2.8	2.5	4.5
22	5.3	3.0	9.8	2.2	3.1	2.5	1.0	3.2	1.4	2.8	2.5	5.2
23	5.6	2.9	8.6	2.3	3.1	2.5	1.0	2.8	1.4	2.8	2.5	5.6
24	5.6	2.9	6.1	2.7	3.3	2.3	1.0	2.6	1.4	2.8	2.5	5.7
25	5.6	2.9	6.0	2.7	3.4	2.3	1.0	2.3	1.3	2.7	2.5	5.3
26	5.3	2.9	4.2	2.6	3.2	2.1	3.2	2.1	1.3	2.5	2.4	5.3
27	5.0	2.9	4.6	2.4	3.0	2.1	3.1	2.1	1.3	2.3	2.4	5.2
28	4.7	2.9	4.6	2.3	2.7	2.8	2.7	2.0	1.3	2.3	2.4	5.1
29	4.4	-----	5.3	2.1	2.4	3.2	2.3	2.0	1.3	2.3	2.4	4.7
30	4.2	-----	5.2	2.0	2.2	2.6	2.3	2.0	1.3	2.3	2.4	4.3
31	3.8	-----	4.8	-----	2.0	-----	2.1	2.0	-----	2.3	-----	3.9

1899.

1	3.9	2.5	3.6	2.5	1.2	1.4	1.5	1.1	1.4	1.4	1.1	1.5
2	3.6	2.4	3.2	2.1	1.1	1.4	1.4	1.1	2.3	1.3	1.8	1.5
3	3.4	2.4	2.9	1.8	1.1	1.6	1.3	1.1	2.0	1.3	2.5	1.5
4	3.7	2.4	3.6	1.6	1.1	1.6	1.3	1.1	1.8	1.3	2.7	1.6
5	3.7	2.3	4.2	1.4	1.1	1.7	1.2	1.1	1.6	1.3	2.5	1.6
6	3.5	2.3	3.6	1.2	1.1	1.8	1.9	1.1	1.4	1.2	2.3	1.6
7	3.3	2.5	3.1	1.3	1.1	1.6	1.9	1.1	1.2	1.2	2.1	1.5
8	3.1	2.6	2.8	2.1	1.1	1.3	1.8	1.1	1.2	1.2	1.8	1.5
9	2.9	2.6	2.5	2.3	1.2	1.2	1.8	1.1	1.2	1.2	1.7	1.5
10	2.9	2.8	2.2	1.8	1.4	1.2	2.2	1.1	1.2	1.2	1.5	1.5
11	2.9	2.9	2.1	1.5	1.4	1.2	2.2	1.1	1.2	1.2	1.6	1.6
12	2.8	2.8	2.1	1.3	1.3	1.2	2.2	1.1	1.2	1.2	1.7	2.8
13	2.7	2.6	1.8	1.3	1.2	1.2	2.1	1.1	1.2	1.2	1.8	4.1
14	2.9	2.5	1.6	1.3	1.2	1.2	2.1	1.1	1.2	1.2	1.8	4.1
15	3.2	2.5	1.5	1.3	1.2	1.2	2.1	1.1	1.2	1.2	2.3	3.8
16	3.2	2.5	1.5	1.5	1.2	1.2	1.9	1.1	1.2	1.2	2.5	3.7
17	3.1	2.4	1.5	1.5	1.8	1.1	2.3	1.1	1.2	1.2	2.3	3.7
18	2.9	2.6	1.6	1.4	3.2	1.1	2.5	1.1	1.2	1.2	2.3	3.4
19	2.9	2.8	2.2	1.3	2.9	1.1	2.6	1.1	1.2	1.2	2.3	3.1
20	2.8	3.1	2.7	1.3	3.1	1.1	2.5	1.1	1.2	1.2	2.1	4.6
21	2.6	3.2	2.6	1.3	2.8	1.1	2.3	1.1	1.2	1.1	2.0	4.3
22	2.4	3.5	2.5	1.3	2.6	1.1	2.1	1.1	1.2	1.1	1.9	4.0
23	2.3	4.2	2.4	1.3	2.4	1.1	1.9	1.1	1.1	1.1	1.9	3.9
24	2.8	4.1	2.3	1.2	2.1	1.1	1.9	1.1	1.1	1.1	1.9	3.8
25	2.9	3.8	2.3	1.2	1.8	1.1	1.8	1.1	1.1	1.1	1.8	3.6
26	3.2	3.8	2.3	1.2	1.7	1.4	1.8	1.1	1.2	1.1	1.6	3.2
27	3.3	3.8	2.3	1.2	1.6	1.3	1.7	1.1	1.3	1.1	1.6	3.1
28	3.2	3.6	2.2	1.2	1.6	1.3	1.3	2.0	1.3	1.1	1.5	3.1
29	3.1	-----	3.1	1.2	1.4	1.4	1.2	2.0	1.4	1.1	1.5	2.8
30	2.8	-----	2.9	1.2	1.4	1.5	1.2	1.8	1.4	1.1	1.5	2.7
31	2.5	-----	2.8	-----	1.4	-----	1.1	1.4	-----	1.1	-----	2.6

DAILY RIVER STAGES.

443

Susquehanna River system (West Branch)—Sinnamahoning Creek, Sinnamahoning, Pa.

1897.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1							-3.0			-3.0	-3.0	3.0
2							-3.0			-3.0	-3.0	3.0
3			4.0				-3.0			-3.0	-3.0	3.0
4			4.5		3.5		-3.0			-3.0	-3.0	3.0
5			4.8		3.5		-3.0			-3.0	-3.0	3.0
6			6.0		3.0		-3.0			-3.0	-3.0	3.0
7			5.0		3.0		-3.0			-3.0	-3.0	3.0
8			4.5	3.0	3.0		-3.0			-3.0	-3.0	3.0
9			4.0	4.0	3.0		-3.0			-3.0	-3.0	3.0
10			4.0	5.5	3.0		-3.0			-3.0	-3.0	3.0
11			4.0	5.0	3.0		-3.0			-3.0	-3.0	3.0
12			4.0	3.5	3.0		-3.0			-3.0	-3.0	3.0
13			3.5	3.0	4.5		-3.0			-3.0	-3.0	3.0
14			3.5	3.0	4.5		-3.0			-3.0	-3.0	3.5
15			3.0		4.0		-3.0			-3.0	-3.0	4.0
16			3.0		3.5		-3.0			-3.0	-3.0	4.5
17			3.0		3.0		-3.0			-3.0	-3.0	4.5
18			3.0		3.0		-3.0			-3.0	-3.0	4.0
19			3.0				-3.0			-3.0	-3.0	3.5
20			3.5				-3.0			-3.0	-3.0	3.5
21			3.5				-3.0			-3.0	-3.0	3.0
22			3.5				-3.0			-3.0	-3.0	3.0
23			3.5				-3.0			-3.0	-3.0	3.0
24			3.5				-3.0			-3.0	-3.0	3.0
25			3.0				-3.0			-3.0	3.0	3.0
26			3.0				-3.5			-3.0	3.5	3.0
27			3.0				-3.5			-3.0	4.0	3.0
28			3.0				-3.0			-3.0	3.5	3.0
29			3.0				-3.0			-3.0	3.5	3.0
30			3.0				-3.0			-3.0	3.0	3.0
31			3.0				-3.0			-3.0		3.0

1898.

1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2	3.0	Frozen.	3.0	3.0	3.0	3.0	3.0	3.5	3.0	3.0	3.0	3.0
3	3.0		3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0	3.0	3.0
4	3.0		3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0	3.0	3.0
5	3.0		3.0	3.0	3.0	3.0	3.0	3.5	3.0	3.0	3.0	3.0
6	3.5		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
7	4.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
8	4.5		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
9	4.5		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
10	5.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	3.0
11	5.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.8	3.0
12	5.0	5.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	3.0
13	4.5	4.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	3.0
14	4.5	3.5	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0
15	4.0	3.5	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0
16	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.0
17	3.5	3.0	3.0	3.0	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
18	3.5	3.0	3.5	3.0	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
19	3.0	3.0	4.0	3.0	3.5	3.0	3.0	5.5	3.0	3.0	3.0	3.0
20	3.0	3.0	7.4	3.0	3.5	3.0	3.0	6.0	3.0	3.0	3.0	3.0
21	3.0	3.0	6.0	3.0	3.5	3.0	3.0	5.5	3.0	3.0	3.0	3.5
22	3.0	3.0	8.5	3.0	4.0	3.0	3.0	4.0	3.0	4.8	3.0	3.5
23	3.0	3.0	11.8	3.5	3.5	3.0	3.0	4.0	3.0	5.0	3.0	3.5
24	3.0	3.0	7.5	4.0	3.5	3.0	3.0	3.5	3.0	5.0	3.0	3.5
25	3.0	3.0	5.0	4.4	3.0	3.0	3.0	3.5	3.0	4.5	3.0	3.5
26	3.0	3.0	3.5	4.0	3.0	3.0	3.0	3.5	3.0	4.5	3.0	3.5
27	3.0	3.0	3.0	3.5	3.0	3.0	3.0	3.0	3.0	4.5	3.0	3.0
28	3.0	3.0	3.0	3.5	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0
29	3.0		4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
30	3.0		5.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
31	3.0		3.0		3.0		3.0	3.0		3.0		3.0

DAILY RIVER STAGES.

*Susquehanna River system (West Branch)—Sinnamahoning Creek, Sinnamahoning, Pa.—Continued.***1899.**

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.0		3.5	3.0								
2	3.0		3.5	3.0								
3	3.0		3.5	3.0								
4	3.0		4.5	3.0								
5	4.0		5.5	3.0								
6	4.0		5.5	3.0								
7	3.5		5.0	3.0								
8	3.5		5.0	4.0								
9	3.0		4.5	4.0								
10	3.0		4.0	3.5								
11	3.0		4.0	3.0								
12			3.5	3.0								
13			3.0									
14			3.0									
15			3.5									
16		3.0	3.5									
17		3.0	3.5		3.0							
18		3.5	3.5		4.0							
19		3.5	3.5		4.0							
20		3.5	3.5		3.5							
21		3.5	3.0		3.5							
22		4.0	3.0		3.0							
23		4.5	3.0		3.0							
24		4.5	3.0		3.0							
25		4.5	3.0									
26		4.0	3.0									
27		4.0	3.0									
28		4.0	3.0									
29			3.0									
30			3.0									
31			3.0									

NOTE.—On all days when data are missing the stage was less than 3 feet above zero.

DAILY RIVER STAGES.

445

Waccamaw River system—Waccamaw River, Conway, S. C.

1896.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.0	4.6	6.1	3.0	2.3	1.5	2.2	2.8	2.4	1.9	1.4	1.7
2	1.8	4.6	6.1	2.9	2.3	1.4	2.0	2.6	1.9	1.9	1.4	1.8
3	1.5	4.7	6.0	2.7	2.2	2.0	2.0	2.3	1.9	2.0	1.6	3.7
4	1.1	4.7	5.9	2.5	2.0	2.3	1.9	1.9	1.8	2.1	1.6	4.5
5	1.3	4.6	5.7	2.4	2.0	2.4	1.8	2.3	1.4	2.1	2.4	4.9
6	1.7	4.7	5.5	2.3	1.8	2.0	1.6	2.0	1.4	2.2	2.3	5.0
7	1.8	5.0	5.2	2.2	1.5	1.5	1.5	1.8	1.3	2.4	2.0	5.1
8	2.2	5.0	5.0	2.1	1.2	0.9	1.5	1.3	1.3	2.5	2.3	5.0
9	2.3	5.7	4.8	2.0	1.2	0.6	2.5	1.0	1.2	2.6	2.6	5.0
10	2.3	6.8	4.6	2.1	1.0	0.9	4.1	0.8	1.2	2.8	2.7	4.9
11	2.3	6.9	4.5	2.0	1.0	1.5	4.8	0.8	1.4	2.9	2.8	4.9
12	1.9	6.8	4.5	1.9	0.9	1.7	4.6	1.1	1.6	2.7	2.7	4.8
13	1.4	6.6	4.4	1.9	0.9	2.2	4.4	1.4	1.8	2.6	2.3	4.7
14	1.0	6.6	4.2	1.9	0.9	2.5	4.5	1.6	2.0	2.5	2.2	4.7
15	0.7	6.7	4.1	1.8	0.9	2.7	4.6	1.6	2.0	2.6	2.1	5.4
16	1.0	6.7	4.0	1.6	1.2	2.3	4.6	1.3	1.9	2.5	2.1	5.6
17	2.0	6.7	4.1	1.5	1.3	2.0	4.5	1.1	1.6	2.5	1.8	5.9
18	1.9	6.9	4.1	1.5	1.3	1.8	4.3	1.5	1.6	2.2	1.3	6.0
19	2.2	7.0	3.9	1.4	1.3	1.8	4.5	1.6	1.6	1.9	1.2	6.1
20	2.5	7.0	3.8	1.4	1.3	2.1	4.6	1.6	1.3	2.0	1.2	6.1
21	2.9	7.0	3.7	1.3	1.2	1.7	5.0	1.6	0.8	2.0	1.4	6.1
22	3.1	6.9	3.5	1.0	1.2	1.4	5.4	1.5	0.8	1.8	1.5	6.0
23	3.5	6.8	3.2	1.3	1.1	1.1	5.4	1.5	0.7	1.6	1.5	6.0
24	3.9	6.7	2.9	1.8	0.9	0.8	5.5	1.4	0.9	1.6	1.6	6.0
25	4.1	6.7	2.8	1.5	0.9	0.8	5.3	1.8	1.1	1.5	1.5	5.9
26	4.2	6.6	2.9	1.9	0.9	1.3	4.8	2.0	1.5	1.4	1.4	5.9
27	4.3	6.4	3.1	2.3	1.2	1.7	4.4	2.0	1.3	1.4	1.6	5.8
28	4.4	6.3	3.1	2.4	1.4	2.1	4.1	2.5	1.1	1.3	1.8	5.7
29	4.4	6.1	3.2	2.2	1.5	2.4	4.5	2.5	1.8	1.5	1.6	5.6
30	4.5	-----	3.2	2.4	1.8	2.3	3.8	2.4	1.9	1.5	1.6	5.5
31	4.6	-----	3.1	-----	1.5	-----	3.0	2.4	-----	1.6	-----	5.3

1897.

1	5.3	3.2	7.0	4.4	2.6	2.2	1.4	2.1	1.5	2.1	2.1	1.8
2	5.2	3.5	7.1	4.2	3.0	1.9	1.4	2.1	1.8	1.9	2.1	2.0
3	5.1	3.7	7.1	4.2	3.3	2.5	1.7	2.2	2.2	1.8	1.8	2.2
4	5.0	3.8	7.0	4.1	3.4	2.3	1.8	2.3	2.4	1.8	1.6	1.8
5	5.0	3.8	7.1	4.0	3.6	2.1	1.9	2.3	2.3	1.9	1.5	1.7
6	4.9	4.2	7.2	4.0	3.5	2.8	2.1	2.1	2.2	2.0	1.4	1.5
7	4.6	4.7	7.3	3.6	3.4	3.1	2.2	2.3	2.0	2.2	1.4	1.2
8	4.3	5.1	7.3	3.3	3.4	2.9	2.0	2.4	1.8	1.8	1.3	0.9
9	4.1	4.9	7.2	3.3	3.3	2.9	2.0	2.6	1.4	1.4	1.2	0.7
10	3.8	4.9	7.1	2.7	3.2	3.0	1.8	2.3	1.2	1.3	0.9	0.5
11	3.3	4.8	7.0	2.6	3.2	3.1	1.8	2.3	1.2	1.3	0.8	0.5
12	3.0	4.9	6.9	2.5	3.5	3.1	1.7	2.2	1.1	1.2	0.6	0.4
13	2.7	5.1	6.8	2.5	3.6	3.2	1.6	2.5	1.1	1.2	0.4	0.4
14	2.5	5.1	6.8	2.4	3.8	3.3	1.3	2.5	1.1	1.1	0.4	0.5
15	2.3	5.0	6.8	2.3	3.8	3.3	1.2	2.5	1.1	1.1	0.4	0.6
16	2.3	5.2	6.7	2.3	3.9	3.3	1.0	2.5	1.0	1.3	0.3	0.6
17	2.2	5.6	6.5	2.7	3.9	3.2	1.3	2.1	1.0	1.6	0.3	0.5
18	2.5	5.8	6.3	3.2	4.0	3.1	1.5	1.7	0.9	1.9	0.3	0.4
19	2.6	5.8	6.2	3.7	3.8	3.5	1.8	1.3	1.4	2.2	0.2	0.5
20	2.6	5.9	6.1	3.6	3.6	3.2	1.6	1.0	1.8	2.5	0.2	0.6
21	3.0	6.1	6.0	3.5	3.5	2.8	1.5	1.0	1.5	2.7	0.2	0.7
22	3.4	6.2	5.9	3.2	3.4	2.6	1.5	1.1	1.4	2.4	0.2	0.6
23	3.3	6.2	5.8	3.0	3.4	2.4	1.6	1.2	2.0	2.1	0.3	0.6
24	3.2	6.3	5.8	2.6	3.4	2.2	1.3	1.3	1.4	2.1	0.3	0.6
25	3.0	6.3	5.7	2.3	3.3	1.8	0.8	1.3	1.2	2.2	0.3	0.5
26	2.8	6.8	5.5	2.0	2.9	1.4	0.6	1.6	1.2	2.2	0.4	0.9
27	2.7	6.9	5.4	1.8	2.8	1.5	1.0	1.6	1.3	2.3	0.6	1.3
28	2.9	7.0	5.2	1.7	2.7	1.6	1.4	1.3	1.3	2.5	0.8	1.6
29	3.0	-----	5.0	1.6	2.4	1.8	1.6	1.3	1.6	2.6	1.1	1.8
30	3.1	-----	4.7	1.6	2.3	1.6	2.2	1.4	1.9	2.3	1.5	1.9
31	3.1	-----	4.6	-----	2.2	-----	2.0	1.5	-----	2.2	-----	2.0

DAILY RIVER STAGES.

Waccamaw River system—Waccamaw River, Conway, S. C.—Continued.

1898.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.1	1.7	1.6	2.0	2.6	2.1	0.5	1.5	4.8	3.0	2.5	4.1
2	2.0	1.6	1.5	2.0	2.5	1.7	0.7	2.0	4.8	3.2	2.1	3.9
3	1.8	1.3	1.6	1.9	2.1	1.4	0.9	2.3	4.9	3.4	1.8	4.0
4	1.6	1.1	2.5	1.7	2.1	1.3	1.0	2.5	4.9	3.3	1.8	4.6
5	1.5	1.1	2.2	2.1	2.4	1.7	1.0	2.5	4.8	2.8	2.3	5.2
6	1.3	1.3	2.4	2.0	2.7	2.3	1.2	2.6	4.8	2.4	2.0	5.3
7	1.1	1.3	2.8	2.7	2.8	2.6	1.4	2.6	4.8	2.4	1.7	5.5
8	1.1	1.4	2.9	2.8	2.7	2.6	1.6	2.5	4.6	2.5	1.5	5.5
9	1.0	1.4	3.1	2.9	2.5	2.8	2.0	2.0	4.5	2.5	1.9	5.5
10	1.0	1.4	3.3	2.7	2.8	2.4	2.0	2.0	4.4	2.7	1.9	5.4
11	0.9	1.3	3.3	2.7	2.9	2.0	2.1	1.9	4.4	2.8	1.5	5.5
12	0.8	1.5	3.1	2.7	2.9	1.6	2.2	1.6	4.3	2.8	1.4	5.5
13	0.8	1.5	3.0	2.7	2.8	1.3	2.5	2.3	4.3	2.7	1.7	5.6
14	0.9	1.6	2.9	2.7	2.7	0.9	2.5	2.8	4.6	2.5	2.1	5.6
15	1.4	1.7	2.8	2.4	2.4	0.5	2.1	3.3	4.3	2.3	1.8	5.5
16	1.5	1.4	2.7	2.3	2.1	0.1	1.7	3.4	4.3	2.1	2.3	5.4
17	1.5	1.1	2.4	2.2	1.7	0.4	1.5	3.5	4.4	2.0	2.6	5.4
18	1.4	1.0	2.1	2.0	1.5	0.8	1.2	3.4	4.3	2.5	2.7	5.3
19	1.4	1.0	2.1	1.9	2.1	1.0	1.4	3.3	4.3	2.5	3.3	5.2
20	1.5	1.3	1.9	1.7	2.2	1.0	1.6	3.3	4.2	2.4	3.6	5.1
21	1.3	1.5	1.7	1.9	1.6	1.4	1.7	3.4	3.9	2.5	3.8	5.1
22	1.3	1.5	1.5	2.2	1.5	1.5	1.7	3.4	4.0	2.9	3.8	4.8
23	1.2	1.9	1.8	2.1	1.4	1.8	1.8	3.6	4.0	2.7	4.0	4.7
24	1.1	2.1	2.1	2.0	1.8	1.7	1.8	3.7	3.7	2.5	4.0	4.6
25	1.2	2.1	1.9	1.8	1.8	1.7	1.9	3.7	3.6	2.5	4.0	4.5
26	1.5	1.8	2.3	1.7	1.8	1.4	2.3	3.7	3.5	2.6	4.1	4.4
27	1.3	1.7	2.3	2.1	2.1	1.2	2.3	3.6	3.2	2.3	4.1	4.3
28	1.5	1.6	2.4	2.2	2.3	1.0	2.0	4.0	3.0	2.2	4.0	4.1
29	1.7		2.2	2.4	2.2	0.8	1.8	4.5	3.0	2.6	4.0	3.9
30	1.8		2.0	2.7	2.1	0.6	1.5	4.6	3.0	2.6	4.1	3.8
31	2.1		1.8		2.0		1.5	4.7		2.6		3.7

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1	3.6	5.0	8.6	5.3	6.2	2.7	3.0	5.5	4.0	1.2	1.7	1.3
2	3.6	5.1	8.6	5.1	6.2	2.5	2.9	5.6	4.0	1.2	1.6	1.8
3	3.3	5.1	8.6	5.0	6.2	2.5	2.8	5.7	3.8	1.6	2.4	2.1
4	3.2	5.0	8.5	5.0	6.1	2.3	2.9	5.9	3.6	1.7	2.1	2.5
5	3.0	4.9	8.4	4.4	6.1	2.0	2.4	6.0	3.4	1.8	2.2	2.2
6	2.8	4.9	8.2	4.3	6.1	1.9	2.0	6.1	3.1	2.4	2.4	2.1
7	2.7	4.9	8.0	4.3	6.1	1.8	2.1	6.2	2.8	3.0	2.6	1.8
8	2.5	5.0	7.8	4.8	6.2	1.7	2.2	6.2	2.5	2.5	2.7	2.0
9	2.4	5.1	7.6	4.9	6.3	1.7	2.4	6.3	2.3	2.2	2.8	2.3
10	2.3	5.1	7.5	4.9	6.1	1.8	2.5	6.4	2.6	2.3	2.8	2.4
11	2.6	5.2	7.4	4.8	6.0	2.0	2.8	6.5	2.8	2.4	2.7	2.5
12	3.0	5.3	7.2	4.7	5.8	2.3	2.7	6.7	2.7	2.4	2.5	2.4
13	3.2	5.4	7.2	4.6	5.6	2.4	2.6	6.8	2.7	2.5	2.4	1.9
14	3.3	5.4	7.1	4.5	5.4	1.8	2.5	6.8	2.6	2.5	2.3	1.7
15	3.3	5.5	7.0	4.5	5.2	1.8	2.4	6.9	2.5	2.6	2.1	1.9
16	3.4	5.9	6.8	4.5	4.9	2.4	2.3	6.9	2.4	2.6	1.8	1.7
17	3.6	6.9	6.7	4.5	4.6	2.5	2.3	6.7	2.3	2.3	2.0	2.4
18	3.8	7.6	6.5	4.5	4.2	2.6	2.2	6.6	2.2	2.0	2.3	2.5
19	3.9	7.7	6.3	4.6	4.0	2.8	2.0	6.5	2.5	1.8	2.3	2.2
20	3.9	7.8	6.2	4.8	3.9	2.8	1.9	6.3	2.5	1.8	2.3	2.0
21	4.1	7.7	5.9	5.0	3.8	2.9	2.1	6.0	2.7	2.0	2.3	2.5
22	4.1	7.7	5.6	5.2	3.6	3.2	2.1	5.9	2.5	2.2	2.5	2.5
23	4.2	7.6	5.4	5.3	3.6	3.8	2.4	5.7	2.4	2.5	2.5	2.5
24	4.2	7.7	5.1	5.4	3.4	4.0	2.6	5.5	2.2	2.3	2.3	2.6
25	4.3	7.7	4.9	5.4	3.2	3.6	2.9	5.2	2.0	1.8	2.6	2.2
26	4.3	7.8	4.8	5.7	3.0	3.3	3.4	5.0	2.2	1.8	2.7	2.1
27	4.4	8.0	4.8	6.0	3.4	3.4	4.1	4.7	2.0	1.9	2.8	2.2
28	4.5	8.4	4.9	6.0	3.2	3.4	4.8	4.5	1.7	1.9	2.4	2.1
29	4.6		5.2	6.2	3.1	3.3	5.0	4.2	1.6	1.7	2.0	1.9
30	4.9		5.3	6.2	2.9	2.9	5.1	4.4	1.2	1.4	1.6	1.6
31	5.0		5.3		2.8		5.3	4.4		1.9		1.9

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